ARCADIS Design & Consultancy for natural and built assets

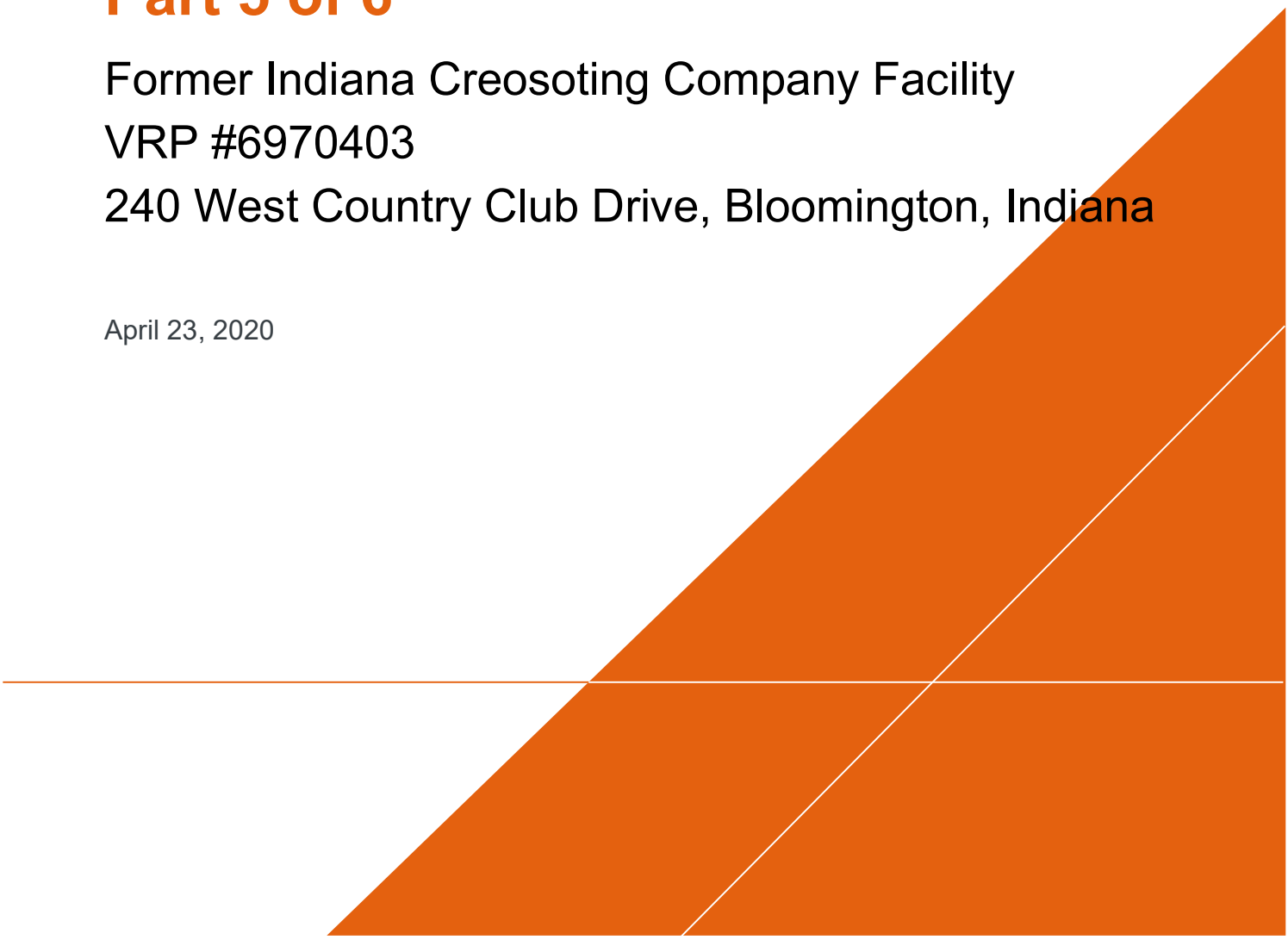
CSX Transportation, Inc.

REVISED REMEDIATION WORK PLAN

Part 5 of 6

Former Indiana Creosoting Company Facility
VRP #6970403
240 West Country Club Drive, Bloomington, Indiana

April 23, 2020



APPENDIX D

***Current Conditions Report* (May 24, 2019)**

ARCADIS Design & Consultancy for natural and built assets

CSX Transportation, Inc.

CURRENT CONDITIONS REPORT

Former Indiana Creosoting Facility
Bloomington, Indiana

IDEM VRP No. 6970403

CSX Site No. 9415829

May 24, 2019

CURRENT CONDITIONS REPORT

Former Indiana Creosoting Facility
Bloomington, Indiana

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May 24, 2019

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EXECUTIVE SUMMARY

Arcadis U.S., Inc. (Arcadis), on behalf of CSX Transportation, Inc. (CSX) has prepared this Current Conditions Report to document the investigative and remedial activities that have occurred at the former Indiana Creosoting Facility located at 240 Country Club Drive, Bloomington, Monroe County, Indiana, (Site). The objective of this report is to document the Site activities that have occurred since the previous *Geology and Hydrogeology Report was* submitted to the Indiana Department of Environmental Management (IDEM) on October 27, 2011. This report documents the site activities that occurred from October 2011 through December 7, 2018. The following bullets summarize key findings and conclusions associated with the various investigations and remedial activities conducted at this site.

- An extensive free product recovery program was initiated in 2011 for the project, monitoring 40 select wells on a weekly basis. Over 10,200 gallons of free product/water has been recovered from the site; with over 5,200 gallons of that total being free product only. The recovered volumes peaked in 2013 and continue to decline with only 400 gallons of free product/water (250 gallons of free product only) recovered in 2018.
- The *Human Health Risk Assessment* (HHRA) and *Screening-Level Ecological Risk Assessment* (SLERA) both were submitted in 2015, reviewed by the IDEM and indicate no significant risk associated with the site.
- As a proactive measure, a Vapor Intrusion Assessment was conducted on the commercial businesses (Walnut Station Commercial Plaza) on the eastern portion of the site in 2010. Sub-slab and Indoor Air samples were collected from each of the tenants of the commercial plaza as part of the assessment. Concentrations were below the screening levels and indicate vapor intrusion is not an issue with this property.
- The recent groundwater sampling event (March 2018) requested by the IDEM from their review of the risk assessments, indicates the groundwater concentrations continue to be stable and/or declining. Furthermore, groundwater monitoring has occurred at the site for over 20 years through a network of 76 monitoring wells analyzing for the IDEM approved constituent of concern (COC) list of benzene, toluene, ethylbenzene, and xylenes (BTEX), semi volatile organic compounds (SVOCs), and total/dissolved metals.
- A total of eight (8) additional monitoring wells, twelve (12) recovery wells, and four (4) pilot study recovery wells have been installed since October 2011 to further define impacts in the subsurface and/or for increased dense non-aqueous phase liquid (DNAPL) recovery. The nature and extent of the residual creosote impacts has been delineated through site characterization and coordinated with the IDEM.
- Impacted surface soil, subsurface soil and sediments have been removed from the site to allow for Exposure Point Concentrations (EPCs) to be utilized for risk-based exposure. All excavation activities were conducted with approval from the IDEM Voluntary Remediation Process (VRP) section and appropriate permits through the United States Army Corps of Engineers (USACE), IDEM Water Quality Section, and Indiana Department of Natural Resources (IDNR).

- Approximately 9,000 tons of creosote bleed soils and impacted surface soils, with elevated levels of benzo(a)pyrene were excavated from twenty (20) areas of interest across the northern and southern tracts of the Site from late 2011 through 2013.
- Approximately 550 tons of sediment, from two (2) point bar areas within Clear Creek, immediately adjacent to the site, were excavated in 2012. The purpose of the work was to remove sediments with residual impacts within Clear Creek, south of Country Club Drive. The two sediment removal areas were dewatered with the assistance of a series of aqua dams and trash pumps; the aqua dams assisted in diverting the creek channel around the sediment removal areas, reducing the amount of water in the removal areas.
- Arcadis performs an annual walk-through of Clear Creek, which flows north-south through the center of the property, to observe any visible sheens that may be migrating from the site. During the creek walk, Arcadis monitors for the presence of sheens and/or creosote bleeds emanating from the bedrock fractures along the creek bottom. The creek is inspected for the entire distance it traverses through to the Site. No visible sheens have been observed during the walk-through.
- As part of the permits optioned for the excavation activities, a tree mitigation project was implemented by CSX at the site. A total of eighteen (18) trees at sizes greater than 10 inches diameter-at-breast-height (DBH) were removed as part of the soil excavation activities. In accordance with the IDNR Construction in a Floodway Permit No. FW-25726, these trees were to be replaced at a 5:1 ratio (90 trees). In October 2012, ninety-one (91) trees were planted within five (5) separate excavation areas (zones). Annual tree reports have been submitted to the IDNR, detailing the survival rates for years: 2013, 2014, 2015, and 2016. A letter from the IDNR granting the release from further annual tree monitoring was received on November 20, 2017.
- Two temporary remediation storage areas were constructed at the Site in 2014. A storage compound (eastern compound) was constructed on Lot #3 (Figure 6), located south of Country Club Drive and east of Clear Creek consisting of a 40’ x 40’ x 8’ chain link fenced compound, containing a 20’ x 20’ x 4” concrete pad. A temporary storage building and compound (western compound) was constructed south of Country Club Drive, west of Clear Creek consisting of an 80’ x 50’ x 8’ chain link fenced compound, containing a 60’ x 40’ x 4” concrete pad, and a 36’ x 32’ post frame building. The purpose of the compounds is for the storage of remediation equipment (gator, trailers, transfer containers and equipment) necessary for DNAPL removal, and for the storage of fifty-five (55) gallon drums containing free product/water generated from the free product recovery program.
- To prepare for initiation of the free product recovery program, approximately 2,600 linear feet temporary access roads were constructed to improve site access and enable continued remediation cleanup at the Site from December 2011 through February 2012. Additionally, in February 2012, a 24’ long by 36” diameter concrete culvert was installed within a drainage ditch leading to Clear Creek, located south of County Club Drive and east of Clear Creek. The Culvert was placed to allow for temporary roadway access across the drainage ditch for free product recovery operations. The temporary access roads and culvert will be removed once remedial objectives for regulatory closures at the Site are met. The affected wetland area will then be planted with a marsh-appropriate seed mixture.
- In November 2011, the City of Bloomington replaced an existing 30” diameter storm water drainage culvert pipe which had fallen into disrepair, with a new 36” diameter x 246’ long reinforced concrete pipe along a similar alignment as the existing culvert. Once the culvert was fully installed, some culvert sections were approximately 1.0’ above ground surface as they crossed onto CSX property. The City of

Bloomington was required to construct two 50’ x 12’ x 8” concrete pads over the culvert piping to allow continual access the northern tract of CSX property with heavy vehicular traffic.

- On December 7, 2011, CSX and Arcadis conducted a public open house meeting at Lora L. Batchelor Middle School. The purpose of the public open house was to update the public on site activities and inform the public of a large soil removal project in the near future at the Site, and that the Site was being monitored with oversight by the IDEM, to ensure public safety.

The following report documents the findings in greater detail. CSX Transportation will continue to work with the IDEM to ensure there is no risk to human health and the environment from the residual impacts from the former operations of the Indiana Creosoting Company.

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis), has prepared this Current Conditions Report, at the request of CSX Transportation, Inc. (CSX) for the former Indiana Creosoting Facility located at 240 Country Club Drive, Bloomington, Monroe County, Indiana, (Site). This report documents the site activities that occurred from October 2011 through December 7, 2018. A Site Location Map is included as Figure 1.

2 Site History and Background

The Site is located in Township 8 North, Range 1 West, Sections 9 and 16 within Perry Township in Bloomington, Indiana (Figure 1). The Site is bordered to the north and east by commercial/industrial properties; and to the southeast, south and west by predominantly residential properties, although there is some commercial/industrial property along these boundaries as well. Except for the majority of the commercial land acquired by CSXT in 2010, the Site occupies the valley floor of Clear Creek and is relatively flat, with a gentle slope toward the creek. The commercial property acquired in 2010 is also predominantly flat lying and is elevated about 10 feet above the valley floor. The exception is toward the western edge of this property, where the land surface drops off steeply to the valley floor.

The Site is a generally rectangular shaped parcel of land approximately 40 acres in size and is divided into two portions by Country Club Road (Figure 2). The first portion, approximately 14 acres in size, is located north of Country Club Road and is divided by Clear Creek, which flows from north to south through the portion. This entire portion of the site generally lies in or near the floodplain of Clear Creek. The area west of Clear Creek (north of Country Club Road) is where the former creosoting operations took place. Creosote storage tanks and various railroad spurs were also located here. The area to the east of Clear Creek is a marshy area of floodplain that was included among land that CSX purchased in 2006 and was not part of the former wood-treating operation.

The second portion of the Site, which is also divided by Clear Creek, is located south of Country Club Road, and comprises approximately 26 acres. The area to the west of Clear Creek was historically used to store untreated railroad ties and was never developed. The area to the east of Clear Creek consists of floodplain land that was included in CSXT's 2006 purchase described in the preceding paragraph, as well as approximately 6 acres of commercial land located predominantly above the floodplain that CSXT purchased in 2010. This area (east of Clear Creek) has historically been undeveloped.

The Site is currently undeveloped, except for a portion of the land purchased in 2010, which contains a small strip mall and oil change facility. In the former operations area, a few concrete foundations remain (Figure 2). Most of the site is covered either with brush and grasses, or by trees (particularly along Clear Creek). Property access has been restricted by the installation of a fence along Country Club Road.

Wood-treating operations began circa 1914 by the American Creosoting Company and ceased in 1976. The Indiana Creosoting Company, a subsidiary of the Monon Railroad, purchased the property from the American Creosoting Company in 1961. The Monon Railroad merged with the Louisville and Nashville Railroad in 1971, which was the predecessor company to CSXT. All creosote storage, handling, and use appears to have occurred north of Country Club Road in the former operations area. Known locations of creosote storage tanks and other former operational features are shown on Figure 2.

The Site was formally entered into the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP) upon receipt of a signed application acceptance letter dated May 13, 1997. The VRP Application and subsequent Voluntary Remediation Agreement (VRA) reflect CSXT's intention to investigate and remediate the Site, as necessary, to achieve VRP closure for surface soil, subsurface soil, and groundwater for a non-residential property, and to ultimately obtain a Certificate of Completion and Covenant Not to Sue. The current remediation and clean-up objectives for soil and groundwater at the Site are 1996 VRP Tier II Default Non-residential (Industrial) Scenario for on-site impacts and residential for off-site impacts, unless an Environmental Restrictive Covenant (ERC) is agreed upon by the off-site property owners. CSXT expects the land-use of this property to remain industrial at this time. The Site's constituents of concern (COCs) are BTEX (benzene, toluene, ethylbenzene, and xylenes), poly aromatic hydrocarbons (PAHs), phenolic compounds, phthalates, arsenic, and lead. The specific analytes and their respective closure levels are shown on Table 1. The affected media is surface soils, subsurface soils and bedrock, sediments and groundwater.

If cleanup goals for specific COCs were not established in the 1996 manual, then other cleanup goals were utilized including the 1996 IDEM Non-Rule Lead Policy and 2006 RISC Default Industrial Goals. Additionally, Exposure Point Concentrations (EPCs) may be calculated for constituents which may be detected above the applicable Cleanup Goals; these EPCs may in turn be compared to the applicable Cleanup Goals.

2.1 Site Name, Address and Owner Contact Information

Site Name:	Former Indiana Creosoting Facility
Facility Identification Number:	IDEM VRP No. 6970403
CSX Site Number	9415829
Site Address:	240 Country Club Drive Bloomington, Monroe County, Indiana 47401
Site Contact:	Daniel Dyer, CSX
Phone No:	(317) 267-4151
Property Owner Contact:	CSX Transportation, Inc. 500 Water Street Jacksonville, FL 32202 Phone No: (904) 475-0353

2.2 Site Contact Responsible for VRP Process

The CSX contact for the project is:

Mr. Daniel Dyer, CPG
Manager Environmental Remediation
CSX Transportation, Inc.
31 East Georgia Street
Indianapolis, IN 46204
Phone No.: (317) 267-4151

CSX has contracted Arcadis to perform the investigations and remedial activities at the Site. The Arcadis contact is:

Mr. Steven C. Sharp, LPG
150 West Market Street, Suite 728
Indianapolis, Indiana 46204
Phone No.: (317) 236-2829

2.3 Previously Submitted Reports and Correspondence

There have been numerous environmental investigations conducted throughout the Site as well as off-site areas. The following reports have previously been submitted to the IDEM.

- *Indiana Department of Environmental Management Site Investigation – August 1987*
- *Limited Remediation Activity – January 1989 – ENSR*
- *Initial Assessment – December 1989 – ATEC*
- *Soil Sampling and Analysis Report – March 1990 – ATEC*
- *Site Characterization Work Plan – March 1990 – Weston, Inc.*
- *Sampling and Analysis Plan – January 1991 – ARCADIS G&M*
- *Soil Remediation Report – March 1992 – ARCADIS G&M*
- *Remedial Investigation / Hazard Characterization – August 1992 – ARCADIS G&M*
- *Additional Subsurface Investigation – June 1995 – ARCADIS G&M*
- *Supplemental Subsurface Investigation – December 1995 – ARCADIS G&M*
- *Risk Assessment, Former Indiana Creosoting Company – September 1996 – ARCADIS G&M*
- *Phase II Investigation Work Plan – August 1999 – ARCADIS G&M*
- *Phase II Investigation Report – January 2003 – ARCADIS G&M*
- *Further Site Investigation Report – September 2006 – ARCADIS*
- *Remediation Work Plan – December 2009 – ARCADIS*
- *Geology and Hydrogeology Report – October 2011 – ARCADIS*
- *Community Relations Plan – November 2011 – ARCADIS*
- *Screening Level Ecological Risk Assessment (SLERA) Report – November 2011 – Arcadis*
- *Human Health Risk Assessment (HHRA) Limited Risk Assessment Report – May 2015 – Arcadis*
- *Vapor Intrusion Investigation Report – May 2015 – Arcadis*

2.4 Site Geology/Hydrogeology

The site lies on the floor of a shallow north-south trending valley drained by Clear Creek. The creek runs southward through the Site dropping approximately 8 ft in elevation over the ½ mile between the north and south ends of the Site. Clear Creek is a gaining stream which flows on or very near bedrock but has

not developed an entrenched bedrock channel. The banks of the creek are typically composed of 3 feet of fine-grained flood-plain alluvium, often with low natural levies. The majority of the Site is within the active flood plain and has been observed to flood several times a year. Moving outward (east and/or west) away from Clear Creek, the surface elevation increases dramatically as much as 15 ft at the Site and then substantially higher (up to 30 ft) as little as a block away from the Site.

The site geology consists of alluvium in the upper 5 to 15 ft thickening away from Clear Creek. The alluvium is underlain by a thin (0 to 5 ft) Harrodsburg Limestone unit in some areas. The Harrodsburg is underlain by the Ramp Creek Formation which is an interbedded siltstone and limestone unit as thick as 50 ft at the Site. The Ramp Creek Formation is underlain by the Borden Group which is a massive siltstone unit several hundred feet thick. The Borden Group, as detailed later, forms an aquitard which prevents the creosote from penetrating deeper than the depth of the Borden (approximately 40 ft below ground surface (bgs) on-site).

3 ACTIVITIES UPDATE AND CURRENT CONDITIONS

The following sections document the activities that have taken place at the Site since the *Geology and Hydrogeology Report* was submitted to the IDEM in October 2011. Each of the activities that have occurred at the site since October 2011 will be discussed below.

3.1 Risk Assessment

3.1.1 Human Health Risk Assessment (HHRA) Limited Risk Assessment

Arcadis prepared a limited risk assessment on behalf of CSX to assist with closure activities under the IDEM VRP at the former Indiana Creosoting Company facility. The risk assessment focused on the COCs at the Site which included dense non-aqueous phase liquid (DNAPL [creosote]), selected SVOCs (phenols, phthalates, and alkylated PAHs), selected VOCs (benzene, toluene, ethylbenzene, and xylenes [BTEX]), and select metals (arsenic, lead). The *HHRA Limited Risk Assessment Report* was submitted to the IDEM in March 2016.

Due to the ongoing groundwater remediation activities and the lack of human exposure to groundwater, the only exposure pathways determined to be complete is for contact with surface soil by a site worker, and the inhalation of vapors in indoor air by an off-Site worker. Thus, this risk assessment focused on the human health risks to the exposure of on-site surface soil and the potential for off-site vapor intrusion.

Numerous soil excavations have occurred at the Site since 2006, resulting in the removal of approximately 9,941 tons of impacted soil, approximately 550 tons of impacted sediment, and approximately 890 tons of soil from the interceptor trenches, bedrock, and sandbar sediment during the creek liner installation. The surface soil COCs were evaluated and EPCs were calculated where possible. All surface soil EPCs are below their respective default closure goals on-site north and south of Country Club Road, and therefore not a significant risk.

Based on the off-site groundwater data, off-site soil data, and the results of the vapor intrusion study conducted at a building adjacent to the Site, vapor intrusion related to COCs is not a concern. Though Clear Creek has been identified as an ecologically susceptible area, a SLERA was conducted for the

portion of the Clear Creek that is associated with the Site. The results of the definitive SLERA indicate that ecologically significant adverse effects are unlikely at the Clear Creek Study Area due to site- related COCs.

The exposure pathways and exposure routes for the current and future use of the Site evaluated in this limited risk assessment conclude there are no unacceptable risks at the former Indiana Creosoting Company facility based on the supporting lines of evidence detailed below:

3.1.1.1 Surface Soil

Approximately 10,000 tons of surface soil on site have been excavated since 2001. EPCs were calculated with the remaining surface soil data and all COCs are below their respective Tier II default Non-residential closure goals. Off-site surface soil impacts have not been identified. There are no occupied buildings on the Site, and an ERC will restrict future building on the Site. In the unlikely event a building is constructed onsite, a focused soil gas investigation is recommended in the area of the planned building and/or engineering controls be implemented such as a vapor barrier. Based on these lines of evidence the risk to human health from exposure to surface soil via ingestion, dermal contact, or inhalation of dust and vapors in the outdoor air are minimal.

3.1.1.2 Subsurface Soil

The Site is currently vacant, and CSX intends to deed restrict future residential and commercial/industrial development of the property. Thus, redistribution of soil will not be allowed under the terms of the proposed deed restriction. Therefore, contact with subsurface soil will not occur in the future. In the unlikely event construction does occur on site a soil gas investigation and/or engineering controls are recommended as outline above and a Construction Management Plan is recommended to address potential exposure to COCs via incidental ingestion, dermal contact and the inhalation of dust and vapors in outdoor air. Based on these lines of evidence the risk to human health from exposure to subsurface soil via ingestion, dermal contact, the inhalation of dust and vapors in the outdoor air, or the inhalation of indoor air vapor can be eliminated.

3.1.1.3 Groundwater

There are no known drinking water wells in the vicinity of the Site. An ERC will restrict the installation of new drinking water wells on the Site, and an ERO will restrict drinking water wells in the vicinity of the Site. There no occupied buildings on-Site and an ERC will restrict future building on the Site. In the unlikely event a building is constructed on site, ARCADIS recommends a focused soil gas investigation in the area of the planned building and/ engineering controls are implemented such as a vapor barrier. An off-site VI investigation and data evaluation determined the potential for vapor intrusion to occur off site can be eliminated. Ongoing groundwater remediation activities are significantly reducing the levels of free product. Based on these lines of evidence the risk to human health from exposure to COCs in groundwater via ingestion, dermal contact or inhalation of indoor air vapor can be eliminated.

3.1.1.4 Sediment and Surface Water

A definitive SLERA was conducted using sediment and surface water samples obtained from Clear Creek in 2010 to evaluate the effectiveness of the mitigation efforts. The results of the definitive SLERA indicate that ecologically significant adverse effects are unlikely at the Clear Creek Study Area due to Site related COCs. Based on the lines of evidence outlined in the SLERA ecologically significant adverse effects are unlikely at the Clear Creek Study Area due to COCs.

3.1.2 Vapor Intrusion Investigation

As a proactive measure, Arcadis completed a vapor intrusion (VI) evaluation at the Walnut Station Commercial Plaza building, which is adjacent to the Site. Groundwater impacts and free product have been discovered near and/or below the Walnut Station Commercial Plaza. Based on years of investigation the groundwater impacts and free product appear to be closer to the Walnut Station Commercial Plaza than any other structure near the site. Groundwater concentrations and free product combined with the unique geological conditions warranted investigation of the vapor intrusion pathway. Paired indoor air and sub-slab vapor sampling was conducted within the structure. The *Vapor Intrusion Investigation Report* was submitted to the IDEM in May 2015.

In November 2010, ARCADIS collected information on the building, installed permanent sub-slab vapor points, and collected paired sub-slab vapor and indoor air samples to determine if the vapor intrusion pathway was complete. A representative from the Center for Toxicology and Environmental Health accompanied ARCADIS personnel throughout the sampling process.

The Walnut Station Commercial Plaza is a one-story slab-on-grade structure that is divided into five sections. Indoor air samples were collected from each building façade immediately prior to sub-slab vapor sampling in accordance with IDEM's Draft Vapor Intrusion Pilot Program Guidance dated 2006. Indoor air and sub-slab samples were collected in each façade of the building by both USEPA Method TO-15 GC/MS and USEPA Method TO-17 GC/MS.

3.1.2.1 Indoor Air Sampling

Indoor air samples were collected from the Crosstown Cleaners (2622 S. Walnut), Advanced Cash (2618 S. Walnut) and AT&T (2626 S. Walnut) on November 15, 2010. Concurrently, two outside ambient air samples were collected. Indoor air samples were collected at Domino's Pizza (2620 S. Walnut) and the vacant space (2616 S. Walnut) on November 16, 2010. The analytical results were compared to the IDEM (February 2010) indoor air screening levels.

The indoor air and outside ambient air sample results by method TO-15 detected benzene, toluene, ethyl benzene, m,p-xylene, and o-xylene at concentrations below the IDEM screening levels for the 30-year exposure duration under the residential and commercial scenario in all samples. Naphthalene was not detected in any of the indoor air or outside ambient air samples by method TO-15. These concentrations indicate vapor intrusion is not an issue at the Walnut Station Commercial Plaza.

The indoor air and outside ambient air sample results by method TO-17 were all below the detection limit for the constituent list (naphthalene, 2-methylnaphthalene, acenaphthylene, and phenanthrene).

3.1.2.2 Sub-Slab Air Sampling

Sub-slab vapor samples were collected on November 17, 2010 in each façade of the commercial building. The analytical results were compared to the IDEM (February 2010) sub-slab screening levels. The IDEM did not provide sub-slab screening levels for toluene, ethylbenzene, xylenes or naphthalene. Therefore, screening levels for these constituents were back-calculated from IDEM commercial indoor air screening levels using an attenuation factor of 0.1 for sub-slab vapor to indoor air.

The sub-slab sample results by method TO-15 were non-detect for ethyl benzene, m,p-xylene, and o-xylene at all sub-slab ports. Benzene and toluene were non-detect in all sub-slab ports except at Domino's Pizza (2620 S Walnut) with concentrations of 3.9 µg/m^3 and 8.5 µg/m^3, respectively. These concentrations are well below the IDEM screening levels for prompt action at the 30-year exposure duration for both benzene and toluene (53 µg/m^3 and 72,000 µg/m^3, respectively) under the commercial scenario.

The sub-slab sample results by method TO-17 were non-detect for 2-methylnaphthalene, acenaphthylene, and phenanthrene at all sub-slab ports. Naphthalene was non-detect in all sub-slab ports except for Crosstown Cleaners (2622 S Walnut) where a concentration of 7.1 µg/m^3 was detected. This concentration is well below the IDEM screening level for prompt action at the 30-year exposure duration (44 µg/m^3) under the commercial scenario. These concentrations indicate there is not a significant vapor source below the Walnut Station Commercial Plaza.

3.1.3 Screening-Level Ecological Risk Assessment (SLERA)

Arcadis developed a definitive SLERA on behalf of CSXT to assist with closure activities under the IDEM VRP at the former Indiana Creosoting Company facility. Due to ongoing investigation and remediation activities, the SLERA focused on the portion of Clear Creek that is associated with the Site as the Study Area. The SLERA Report was submitted to the IDEM in March 2016.

The SLERA focused on the COCs at the Site which included DNAPL (creosote), selected SVOCs (phenols, phthalates, and priority pollutant and alkylated PAHs), and selected VOCs (BTEX), and metals (total, dissolved, and as simultaneously extracted metals/acid-volatile sulfide [SEM-AVS]).

The SLERA was conducted in two phases. A preliminary SLERA was conducted in 2004 based on sediment, surface water and porewater data collected in 1991 and 2003. The preliminary SLERA concluded that the only COCs that may cause potential risk to ecological receptors in Clear Creek are PAHs in sediment. Based in part on the results of the preliminary SLERA, and intermittent presence of DNAPL globules on the creek bottom, a creek liner was installed along an approximate 170-foot section of Clear Creek within the northern tract of the Site, immediately adjacent to the former operations area, in the Summer-Fall of 2007.

Sediment and surface water samples were obtained from Clear Creek in 2010 to evaluate the effectiveness of the mitigation efforts. The data was used to conduct a definitive SLERA for the Study Area at Clear Creek. The results of the definitive SLERA indicate that ecologically significant adverse effects are unlikely at the Clear Creek Study Area due to Site related COCs. Therefore, further investigation of potential ecological risks and remediation to reduce potential ecological risks are not warranted for Clear Creek.

3.2 Nature and Extent: Site Characterization

3.2.1 Monitoring Well Installation

Eight (8) monitoring wells (MW-32B/C, MW-54A/B, MW-55 A/B, and MW-56A/B) have been installed at the Site since October 2011. MW-32B and MW-32C were installed on the southern Site boundary, to monitor deeper groundwater conditions. MW-54A and MW-54B were installed to assess groundwater conditions at Lot 3, and to assess groundwater conditions between the former MW-27A location and MW-28 series. MW-55A and MW-55B were installed near the center of the Site to monitor deeper groundwater conditions. MW-56A and MW-56B were installed offsite, southwest of the Site boundary, to monitor groundwater conditions.

Bedrock drilling was conducted utilizing a water rotary rock coring HQ diamond bit mounted on a mini-sonic rig. The bedrock was cored using a five-foot-long, HQ core barrel that produced a five-foot-long by 2.5-inch diameter core; creating a 3.78-inch diameter borehole. Drilling was performed using water (only) as drilling fluid. Drilling fluids (water) were recovered to the extent practicable and properly containerized for disposal.

Field geologists documented the volume of drilling water used, drilling water returned, and calculated the volume of water lost for each drilling interval. Field geologists also noted any sheens, odors, or color changes in the drilling water return. Drilling fluids were not reused at subsequent well locations, and fresh water was used at each borehole. During the drilling process, water loss volumes where closely evaluated to identify potential zones of increased permeability. Recorded water loss volumes were considered during the well construction design process in order to select appropriate intervals within the bedrock for groundwater screening.

Recovered bedrock core was characterized in the field and observations were recorded in the bedrock coring log for each well location. These logs provide detailed characterizations of all recovered rock cores within a consistent comprehensive word description, which documents the encountered subsurface environment and the procedures used to gain that description. All logs, for wells installed at the Site since October 2011, are provided in Appendix A. The rock cores were logged in the field using standard methods for identifying rock type, texture, hardness, solution and void conditions, rock quality designations, and percent recovery. Additionally, the rock core was logged for more detailed analysis of mineralogy, dissolution features, and structural characterization. The recovered core was closely examined for the presence of DNAPL and/or sheens. The depths of all naturally occurring fractures, structural and lithographic features were documented on the bedrock coring log. Upon the completion of each core run, the depth of core hole was measured to properly document the termination depth after each core run. The percentage of bedrock core recovery for each core run was calculated and recorded on the bedrock coring log and core box. Rock Quality Designation (RQD) values were calculated for each core run. RQD values were calculated to indicate rock-mass properties according to Deere (1986) by summarizing all the bedrock core portions greater than four inches in length and dividing the sum of these pieces by the length of the bedrock core run. RQD is expressed as a percentage.

All retrieved bedrock core was handled in a manner as to cause the least amount of mechanical fractures. The bedrock cores were boxed in vertical succession in an appropriately sized core box. Increasing

depths were aligned left to right, and all bedrock core runs were separated, and core depths marked utilizing wooden blocks. All cores have been stored on-Site.

Prior to the installation of bedrock monitoring wells, the core hole was reamed to a 6" diameter and was flushed to remove all residual bedrock cuttings and measured to confirm final depth. Once the final depth was determined and approved by field geologist/project team, well installation was initiated. Well screen and sump intervals were reviewed and approved by the project team. The sand pack was completed to a depth of at least two feet above the top of screen. Above the sand pack, one foot of bentonite chips was installed using a dry tremie (slow pour) method; bentonite chips were then allowed to hydrate. Above the bentonite chips, a temporary tremie pipe was installed between the outside of the PVC well riser and the inside of the temporary sonic-rig casing to the top of the bentonite chip layer (well seal). Bentonite cement grout was pumped through the pipe until undiluted grout return was noted at depth of approximately one foot below the top of the ground surface. The temporary sonic-rig casing was then gradually withdrawn, and the tremie pipe was disconnected from the grout pump without removing it from the bottom of the borehole. The mini-sonic temporary casing sections were then withdrawn one at a time. The tremie pipe was then re-connected and additional grout was pumped until grout return was again observed. This procedure was repeated for each temporary mini-sonic casing section until all sections were withdrawn from the boring. Additional grout was pumped through the tremie pipe if necessary, to achieve and maintain undiluted grout to a depth at or near one foot below the ground surface.

Monitoring wells were installed to analyze identified site-specific constituent of concern concentrations and mobility in ground water across the site. All monitoring wells were constructed from threaded two-inch diameter PVC riser with a 0.010 slot stainless steel screen, and a secure bottom cap. Wells were finished with a shale trap and at least a two-foot sump at the bottom of the screen if DNAPL impacts were noted and/or suspected in the uncased borehole. The filter pack surrounding the screen was sized appropriately for the screen slot size (#5 sand). The annular seal material used was hydrated bentonite chips and bentonite slurry (grout/cement). The top of the PVC riser/casing extend approximately 3ft above ground surface and was covered with a steel protective casing. The steel protective cover was finished with a 24" by 24" by 4" thick concrete pad. All monitoring well construction data was recorded on a monitoring well construction log and is summarized in Table 2 and is presented in Appendix A.

Monitoring well development was completed no less than 48 hours after each well was constructed, allowing the bentonite-cement grout to fully cure. Well development was completed by surging the well with a submersible pump. Wells that produced sufficient water were purged until there was no visible sediment when surged. Wells that did not produce sufficient water were surged and purged dry, allowed to recovery, and then purged again. In either case, it was attempted to purge a greater amount of water from the well than was lost during rock coring.

3.2.2 Groundwater Monitoring Well Sampling

Groundwater monitoring was conducted to investigate the groundwater impacts across the Site. Since October 2011, six (6) groundwater monitoring sampling events have taken place at the Site. Routine (quarterly) groundwater monitoring at the Site ceased in late 2012, until the DNAPL Recovery System (see section 3.3.2) was in full operation. Groundwater monitoring activities resumed in July 2015, and then once again in March-April 2018.

In order to establish a thorough dataset to evaluate groundwater conditions, Arcadis began to conduct quarterly groundwater monitoring events beginning in April 2010. In addition to conducting groundwater sampling events once every quarter, Arcadis performed an initial collection of groundwater samples immediately after a monitoring well had been installed. Low-flow groundwater collection procedures and methodologies have been implemented at the Site during the quarterly sampling events in accordance with the IDEM, Office of Land Quality (OLQ), Technical Memorandum (January 8, 2003). Prior to November 2008, bailer sampling methodologies were typically used during sampling events; however, subsequent purging and sampling events have been performed using a combination of low flow via submersible pumps and bailer sampling methodologies. In instances where less than three feet of water column was available for sampling, all sample constituents were collected via bailer, with minimal purging, in order to obtain a sufficient volume of water for sample analysis. The following table summarizes these events.

Date	Sampling Rationale	# of Wells Sampled	Sampling Type
Nov. / Dec. 2011	Quarterly, Pre Abandonment	69	Low Flow and Bailer
Apr. / May 2012	Quarterly, Post Installation	55	Low Flow
Jul. 2012	Quarterly	63	Low Flow and Bailer
Oct. 2012	Quarterly	55	Low Flow
Jul. 2015	Post DNAPL Recovery System	86	Low Flow and Bailer
Mar. / Apr 2018	IDEM Recommendation	80	Low Flow and Bailer

The sampling procedure consists of initially measuring the depth to water in each monitoring well using an audible electronic water level indicator. Groundwater elevation data obtained during these sampling events, as well as historical groundwater elevation data previously collected, is presented in Table 3. Using a submersible variable rate pump, groundwater was pumped from the formation while continually gauging the static water level in the monitor well using an electronic water level indicator. Pumping rates were reduced and maintained as necessary to ensure that the water level in the well did not drop and that purging, and sampling activities yield data that was representative of the formation. Pumping rates ideally ranged between 200-400ml/min, depending on well yield. Using a flow-through cell, water quality information including pH, temperature, specific conductance, oxidation/reduction potential (ORP), dissolved oxygen (DO), and turbidity, was continuously monitored and recorded every two minutes until readings become stable, or the maximum purge limit of 18 minutes had been reached. Readings were considered stable when all parameter readings were within 10% of each other, for three consecutive readings.

Groundwater samples were containerized with minimal headspace, sealed using a Teflon®-lined cap, placed in an ice-packed cooler, and shipped to Accutest Laboratories in Orlando FL, using appropriate chain-of-custody documentation. Groundwater samples analyzed for the following constituents: benzene, toluene, ethylbenzene, and xylenes (BTEX), semi volatile organic compounds (SVOCs), and total; and dissolved metals. Analytical results can be found in Table 4 (BTEX and Metals), Table 5 (SVOCs), and Appendix B.

Reusable equipment (non-dedicated equipment) was decontaminated between sampling in a clean plastic five-gallon bucket with a non-residue detergent/distilled water solution. A separate five-gallon bucket was filled with distilled or laboratory prepared deionized water and utilized as the rinse water. The submersible centrifugal pumps were decontaminated by placing the pump and wiring in the

detergent/water mixture, energizing the pump, and allowing it to run for 2 minutes re-circulating the wash water. This process was then repeated using the rinse water.

When Arcadis conducts monitoring groundwater events, we utilize a Level IV Quality Assurance and Quality Control QA/QC during laboratory analyses. For every twenty groundwater samples collected from the monitoring wells and submitted for laboratory analysis, one field blank sample and one duplicate sample will be collected and submitted for the appropriate analyses. These samples will serve as QA/QC samples.

3.2.3 Monitoring Well Abandonment

Sixteen (16) groundwater monitoring wells have been abandoned at the Site since October 2011. The rationale behind the monitoring well abandonment includes the following: proximity to an excavation area, damaged beyond repair, improper construction, non-detect for 8 consecutive quarters, and/or location on residential property.

A total of eight (8) monitoring wells were abandoned in December 2011, in preparation for excavation activities at the site. These monitoring wells include: MW-2S, MW-2D, MW-4S, MW-4D, MW-13, MW-14S, MW-14D, AND MW-P3. Two (2) additional monitoring wells were abandoned in December 2011, due to damage or improper well installation. These wells include: MW-1S AND MW-11S. Three (3) monitoring wells located on residential property, all exhibiting non-detect concentrations for a period of eight (8) quarters, were abandoned in July 2013. These wells included: MW-33A, MW-33B, AND MW-33C. One monitoring well (MW-49C) was abandoned in July 2015, due to being damaged beyond repair. Two (2) additional monitoring wells were abandoned in July 2017, due to the installation of a new sewer line. These wells include: MW-49A and MW-49B. All monitoring wells were properly abandoned by a licensed driller in accordance with IAC31213-10-2, and well abandonment records were provided to the IDEM post abandonment.

3.3 Remedial Action

3.3.1 Recovery Well Installation

Twelve (12) recovery wells (RW-8 through RW-19) have been installed at the Site since October 2011. RW-8 was installed in April 2012, near the southwestern corner of the Site, along the western property line, due to the presence of DNAPL at two off-site monitoring well locations (MW-48A and MW-51A), located directly to the west (Figure 3). Due to the amount of DNAPL initially observed and recovered at RW-8 (Table 6), three additional recovery wells (RW-9 though RW-11) were installed near the same area of the Site in October 2012 (Figure 2).

Refer to section 3.2.1 for the initial bedrock drilling and well completion process. These four recovery wells (RW-8 through RW-11) were installed approximately five (5) feet into the Borden siltstone with a modified, open borehole design. Upon reaming the borehole to a final diameter of 6 inches, and after suspended sediments had been flushed out; approximately 3 gallons of cement grout slurry were tremie grouted to the bottom of the borehole. Once the cement grout slurry had been tremie grouted in place, 4-inch diameter, stainless steel well material was inserted into the borehole. The stainless-steel well material included the following: 4-foot-long sump at the bottom of the well, 10-foot-long section of 0.010

slot well screen, and riser pipe to the surface. The pre-determined amount of cement grout slurry was used to hold the bottom section of the stainless-steel well material in place, thus eliminating the use of a shale trap. The middle and upper sections of the stainless-steel well material were stabilized by the use of two K-packers, which fit around the 4-inch well material, and flared out to a diameter of 6 inches; thus, creating a seal against the borehole wall. No sand pack, bentonite, or any additional grout was added to the well; thus, maintaining the open borehole construction. The stainless-steel well material was added to continually maintain well and sump access, due to prior instances of PVC well material becoming compromised when subject to prolonged DNAPL exposure.

Beginning in May 2013, a Pilot Hole program was initiated, to potentially reduce the costs associated with installing additional recovery wells across the Site. Eleven (11) pilot holes (PH-1 though PH-11) were installed across the southern tract of the Site. The pilot holes were installed as a study to evaluate and analyze the rate of DNAPL accumulation, recharge and/or recovery at certain locations across the Site, without incurring the additional costs of having to install a fully functional recovery well. Bedrock drilling for the pilot holes was conducted utilizing a water rotary rock coring HQ diamond bit mounted on a mini-sonic rig. Pilot holes were completed with temporary 6-inch diameter casing into the top of bedrock, and HQ drill bit (3.78-inch diameter) at least 2 feet into the Borden Siltstone to allow for a natural sump, for possible DNAPL accumulation; total depths ranged from 40’ to 60’ bgs. The pilot holes were allowed to equilibrate to allow for DNAPL to collect, and for analysis. Drilling was performed using water (only) as drilling fluid. Drilling fluids (water) were recovered to the extent practicable and properly containerized for disposal.

By June 2013, six (6) of the eleven (11) pilot holes had exhibited a high rate of DNAPL accumulation and recharge. These six (6) pilot holes were converted into recovery wells: RW-12, RW-13, RW-14, RW-15, RW-16, and RW-18. During the same mobilization, the previously obstructed monitoring well MW-27A, was over drilled and converted into RW-17. MW-27A had encountered a fracture in the PVC well screen; causing sand to enter the well, prohibiting the recovery of DNAPL.

For two years, Arcadis continually monitored the five (5) remaining pilot holes at the Site. Arcadis performed DNAPL gauging events to track DNAPL accumulation, and also removed groundwater from the pilot holes in an attempt to stimulate DNAPL migration. While all of the pilot holes had exhibited some DNAPL accumulation over the prior two years, one (PH-7) exhibited the significant recharge and was converted into RW-19 in June 2015.

Recovery well construction was modified for recovery wells RW-12 through RW-19. The modifications were: final borehole diameter of 8 inches, stainless steel well material diameter of 6 inches, 10-foot-long sump installed at least 12 foot into competent Borden siltstone, and tremie grouting of ~10 gallons of concrete grout slurry.

All recovery wells were constructed with the stainless-steel riser extended approximately 3 foot above ground surface and was covered with a steel protective casing. The steel protective cover was finished with a 24” by 24” by 4” thick concrete pad. All recovery well construction data was logged on a monitoring well construction form which is provided in Appendix A and summarized in Table 2. Installation of screened recovery wells followed the same procedures as monitoring well installation.

It should be noted that in June 2013, 2-inch stainless steel well material (riser and 10 foot section of screen) was placed in RW-4 and RW-7 due to limited access to the sump after initially being installed as

open borehole recovery wells. The limited access is believed to have been a result of the displacement of the shale trap within the borehole.

Mobilization #	Date	# of Wells Drilled
1	Apr-12	1 RW
2	Oct-12	3 RW's
3	May-13	11 PH's
4	Jun-13	7 RW's
5	Oct-15	1 RW

3.3.2 DNAPL Recovery System Design, Construction & Operation

In November 2011, manual DNAPL recovery was halted to reduce DNAPL (creosote) exposure to field staff and the general public. CSX requested Arcadis to design a system to reduce DNAPL exposure during recovery events. The reduced exposure DNAPL recovery system began its design phase in December 2011.

Arcadis designed, constructed, tested, and implemented a portable DNAPL remedial system that drastically minimizes the exposure to free phase creosote and creosote vapors to ARCADIS field staff and to the general public; this enhanced DNAPL recovery system began initial operations in May 2012. The remedial system developed is an enclosed process known as the Enhanced DNAPL Recovery System. Prior to November 2011, DNAPL at the site had been recovered utilizing the manual bailing technique; this manual method had become extremely unpleasant and unsightly. With the addition of several recovery wells across the Site, Arcadis field staff were being exposed to, and manually removing, an increased amount of creosote during each removal event.

Safety Data Sheets (SDSs) indicated there should be minimal risk associated from exposure to the residual free product creosote. Also, real-time air quality monitoring was conducted by the Indianapolis office using the PDR Data RAM 1000 (for PAHs), a photoionization detector [(PID) for VOCs], and a Chip Measurement System (CMS) (for benzene) during a routine manual DNAPL bailing event. All results from the real-time monitoring indicated the concentrations were below any action level. However, it was noted that ARCADIS field staff were complaining about the adverse effects felt during and/or after manually bailing creosote from monitoring wells and/or recovery wells at the former creosoting facility. These adverse effects included the development of headaches from exposure to creosote vapors, and the development of chemical burns from dermal exposure to creosote coming in contact with the epidermis. In addition to the project challenge of the recovery of free product creosote, the task was further complicated because the Site and some of the recovery wells/monitoring wells are located immediately adjacent to the City of Bloomington's Rails-to-Trails and B-Line Trail, with the public observing and being exposed to the DNAPL recovery activities.

The final Enhanced DNAPL Recovery System design utilizes a diesel powered utility vehicle, industrial sized pull cart, mobile air compressor, gas powered generator, dedicated ¾" stainless steel piping air lift assembly for each well, nylon tubing for creosote discharge, ¾" hose reel for air discharge, vapor proof wellhead assembly, vapor collection system, six (6) 15 gallon drums, an echo pod that digitally displays the total gallons removed, and solenoids that can shut down the system automatically. The system is easily assembled and disassembled through a series of quick connects/disconnects and/or shark bite compression fitting connections. The portable Enhanced DNAPL Recovery System has also changed

recovery operations from manual bailer recovery in Modified Level C Personal Protective Equipment (PPE) – Respirator not required (Chemical suits and gloves) to normal Level D PPE.

Active recovery began in May 2012, starting with recovery well RW-8 and monitoring well MW-21D. Since May 2012, sixteen (16) additional recovery and/or monitoring wells containing DNAPL were equipped to support the DNAPL recovery system. Initially, the enhanced DNAPL recovery system was controlled and operated by a QED pulse pump and control assembly. In April 2013, a ¾" stainless steel piping air lift assembly was installed in RW-10 as a pilot test, to evaluate the operation, effectiveness, and maintenance required as a secondary option for DNAPL recovery techniques. During the pilot study at RW-10, it was noted that the air lift system was more efficient, easier to operate, and required less maintenance when compared to the QED pulse pump operations. Throughout 2013, wells containing the QED pulse pumps were transitioned over to the stainless-steel air lift assembly. Wells currently equipped for DNAPL recovery include: MW-21D, MW-24A, MW-51A (still has QED pulse pump), MW-54A, RW-2, RW-3, RW-4, RW-5, RW-7, RW-8, RW-9, RW-10, RW-12, RW-13, RW-14, RW-15, RW-17, AND RW-18. See Table 6 for DNAPL recovery data since November 2011.

Once all connections are in place, and air flow is applied to the air lift system, DNAPL is forced up the stainless-steel piping system toward the wellhead. At the well head, the stainless-steel piping is equipped with a ¾" brass, female quick connect fitting. From the quick connect at the well head, there is a ¾" nylon hose, fully equipped with a ¾" brass, male quick connect fitting and a brass check valve (to prevent backflow into the well). At the opposite end of the ¾" nylon hose is another brass, male quick connect fitting; which connects to a steel, 15-gallon drum, equipped with a ¾" brass, female quick connect fitting, allowing the DNAPL to enter the drum. The 15-gallon drum also contains a port for vapor to be transported to the vapor collection system (carbon filters), and a port for the echo pod connection. The drums (6) are staged within the garden trailer, being pulled behind the utility vehicle. The echo pod and solenoids (located on the hose reel and vapor collection system) have been engineered to stop air flow to the well once a level of twelve (12) gallons has been achieved within a given drum; although field staff are instructed only remove a certain amount from each location and/or until 10 gallons have been recovered per drum.

Once DNAPL removal has been completed, the 15-gallon drums of DNAPL are transported back to one of two DNAPL storage areas (Figure 6). There, the contents of the 15-gallon drums from are transferred by diaphragm pump into dedicated fifty-five (55) gallon drums for each well. The same type of quick connect assembly is used between the 15-gallon drums, the diaphragm pump, and the 55-gallon drums; as was used when at the well head. The Site was considered a large quantity generator (LQG) per the Resource Conservation and Recovery Act (RCRA) from July 23, 2013 through August 25, 2017; therefore, each fifty-five (55) gallon drum containing DNAPL was removed prior to its 90-day storage limit. On February 20, 2017, Arcadis and CSX petitioned the IDEM to change the Site's generator status from LQG to Small Quantity Generator (SQG). On August 25, 2017, IDEM approved the change in generator status to SQG.

A detailed DNAPL creosote monitoring and recovery program has been implemented at the site, utilizing the enhanced DNAPL recovery system. The program monitors 40 wells on a quarterly basis with some wells more or less often depending on the measured thickness. To date, DNAPL creosote has been detected in 32 monitoring or recovery wells both on-site and off-site. Of those 32 wells, 18 have been retrofitted for product removal, using the DNAPL recovery system. Over 7,400 gallons of DNAPL/water

mixture have been recovered since the inception of the enhanced DNAPL recovery system in April 2012, through December 7, 2018; with over 2,500 gallons recovered from one location (RW-8). See Table 6 for all historical DNAPL recovery values. Just under 10,000 gallons of DNAPL/water mixture have been recovered since August 2000. See Appendix C for DNAPL waste disposal documentation. Prior to each drum's disposal; each drum is gauged to assist with DNAPL removal volumes and calculations.

3.3.3 Pilot Hole Abandonment

Eleven (11) pilot holes were completed in May 2013. Pilot holes were completed with temporary 6" diameter casing into the top of bedrock, and HQ drill bit (3.78" diameter) at least 2 feet into the Borden Siltstone to allow for a natural sump, for possible DNAPL accumulation. The pilot holes were allowed to set and equilibrate to allow for DNAPL to collect and for analysis. Four (4) pilot holes were abandoned on October 20, 2015 (PH-1, PH-3, PH-9, and PH-11), after exhibiting minimal DNAPL accumulation and recharge. All pilot holes were properly abandoned by a licensed driller in accordance with IAC31213-10-2, and well abandonment records were provided to the Indiana Department of Environmental Management (IDEM) post abandonment. The other seven (7) pilot holes were previously completed into recovery wells, as noted in section 3.3.1.

3.3.4 Soil Excavations (Creosote Bleeds, Surface Soils, Benzo(a)pyrene Areas)

CSX and Arcadis conducted voluntary excavations of onsite creosote bleeds, impacted surface soils, and areas with elevated benzo(a)pyrene levels at the Site, from December 2011 through October 2013 (Figure 4). The creosote bleed soils and impacted surface soils at the Site were due to the past operations of the former Indiana Creosoting Company that operated from the early 1900s to 1976. The elevated benzo(a)pyrene areas were identified following a limited risk assessment (section 3.1.1) on behalf of CSX. Excavations were conducted at twenty (20) different areas across the Northern and Southern tracts of the Site.

Prior to implementation of excavation and/or construction activities, Arcadis conducted waste characterization investigations in 2007 and 2013 on the surface and subsurface soils within the twenty (20) areas of interest. All results analyzed for toxicity characteristic leaching procedure (TCLP) were classified as non-hazardous. See section 3.4.1 for permitting.

A total of 9,051.69 tons of creosote bleed soils, impacted surface soils, and soil boring locations (surface soil) with elevated levels of benzo(a)pyrene were excavated from areas of interest across the northern and southern tracts, and disposed off-site at Twin Bridges RDF Waste Management Subtitle D facility located in Danville, Indiana (Appendix C). Excavation depths ranged from 2 feet bgs to 5 feet bgs, depending on the interest area (Figure 4).

3.3.4.1 Confirmation Sampling

Following the excavations, a total of 36 subsurface soil confirmation samples were collected across the eight (8) areas of interest (on-site creosote bleeds & impacted surface soils) excavated from late 2011 to early 2012, prior to the backfilling of each excavation area. The soil confirmation samples were analyzed for Metals (Arsenic and Lead) US EPA SW-846 Method 6010; Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) SW-846 Method 8260; and SVOCs US EPA SW-846 Method 8270. Confirmation

samples were collected across the bottom extents of each excavation area; the depths of which ranged from 2 feet to 5 feet below pre-excavation ground surface.

No BTEX or Metals concentrations were detected above Tier II Industrial IDEM VRP cleanup goals in the subsurface soil confirmation samples submitted for laboratory analysis. SVOC concentrations were detected in 2 of the 36 subsurface soil samples above the Tier II Industrial IDEM VRP cleanup goals (Area-J-CS-3 and Area-J-CS-4). These subsurface soil confirmation samples were collected in excavation Area J, along the unpaved road, and former rail bed, which runs north to south through the northern tract of the Site. Sample Area-J-CS-3 was above the Tier II Industrial IDEM VRP cleanup goals for: Carbazole, 2-Methylnaphthalene, and Phenanthrene. Sample Area-J-CS-4 was above the Tier II Industrial IDEM VRP cleanup goals for: Carbazole, Dibenzofuran, 2-Methylnaphthalene, and Phenanthrene.

An additional eleven (11) confirmation samples were collected across the eleven (11) benzo(a)pyrene areas of interest, excavated in late 2013, prior to the backfilling of each excavation area. The soil confirmation samples were analyzed for SVOCs US EPA SW-846 Method 8270, benzo(a)pyrene only. No benzo(a)pyrene concentrations were detected above Tier II Industrial IDEM VRP cleanup goals in the surface soil confirmation samples submitted for laboratory analysis. Refer to the HHRA for additional rationale on the additional excavations of the eleven (11) benzo(a)pyrene areas.

3.3.4.2 Backfilling

Following confirmation sampling, excavation areas were backfilled with clay, sand, and/or stone to match pre-excavation surface materials and contours. Sand was utilized as backfill on the excavations completed on the southern tract of property due to inaccessibility of a clay source at the time of backfilling. Stone was utilized as backfill, in a mixture with clay, to help stabilize excavation areas on the northern tract where surface waters from heavy rainfall events combined with ground water infiltration.

3.3.4.3 Interim Restoration

Following backfilling, areas of the Site disturbed during excavation activities were stabilized with straw matting and/or loose straw for erosion control. Due to the saturation levels of Site soils and backfill, the excavation areas were allowed to settle during the spring and summer of 2012. These excavation areas were fully restored during the fall of 2012, which included grading to match pre-existing contours, placing of topsoil and re-vegetating with IDNR approved native herbaceous seed mixtures and planting 91 approved hardwood tree species (non-wetlands vs. wetlands).

3.3.4.4 Monitoring

From December 13th, 2011, through December 19th, 2011, and from January 11th, 2012, through February 8th, 2012, Arcadis conducted air monitoring activities at the Site; during excavations of creosote contaminated soils located on the Northern and Southern transects of the Site.

Air monitoring was performed during remediation activities which disturbed contaminated soil or other materials. Monitoring was performed using portable direct-reading instrumentation, and collection of ambient samples for laboratory analysis. The purpose of the monitoring was to quantitatively measure concentrations of chemicals of concern and particulate emissions and determine if measured

concentrations were in excess of applicable action levels. The monitoring was also used to document that engineering controls were effective in controlling creosote-related emissions during soil and sediment handling operations. The air monitoring was performed around the perimeter of the Site, inside the remediation work zone, and also included personal air monitoring to measure worker exposures to contaminants of concern.

Based on the Site contaminant, the target analytes for the air monitoring were the volatile and particulate-phase constituents of creosote as well as particulate matter potentially generated during soil excavation and handling operations on-site. The air monitoring included a combination of real-time field monitoring using portable equipment, and analytical sampling for submission for laboratory analysis. Target analytes included: Coal Tar Pitch Volatiles (CTPVs), Particulate Matter (PM10, respirable particulate), VOCs, and PAHs.

3.3.4.5 Perimeter Monitoring

The perimeter air monitoring included the following constituents:

- **Particulates:** Real-time monitoring for particulate matter was performed at each site perimeter location for the duration of each work shift. Monitoring was performed using a calibrated, portable TSI Sidepak AM510 Personal Aerosol Monitor (AM510). The monitors were equipped to collect respirable particulate 10 microns or less in size. The monitors collected data at a one-minute (or less) interval, which were recorded for the full shift. Data from each monitor was downloaded at the end of each shift and reviewed to determine if respirable particulate levels were acceptable.

- **PAHs:** Ambient air samples were collected each shift from each site perimeter location for analysis for PAHs by NIOSH Method 5506. Samples were collected using a calibrated sampling pump using laboratory recommended procedures and media. Sampling media was submitted to Galson Laboratories in East Syracuse, New York, initially for 24-hour turnaround time.

- **VOCs:** Real-time monitoring for VOCs was performed at each site perimeter location for the duration of each shift. VOC monitoring was performed using a calibrated RAE Systems, Inc. PID such as the RAE Systems MultiRAE Plus and AreaRAE PID. The meters were formatted to record data at a one-minute interval and log the data for download at the end of the shift. Data was reported as total VOCs.

3.3.4.6 Remediation Work Zone Air Monitoring

Work area air monitoring was performed daily for the duration of each shift. The monitoring was performed in the direct vicinity of remediation activities which disturbed contaminated soil or other materials. The work area air monitoring included the following constituents:

- **Particulates:** Real-time monitoring for particulate matter was performed at each site perimeter location for the duration of each work shift. Monitoring was performed using a calibrated, portable TSI Sidepak AM510 Personal Aerosol Monitor (AM510). The monitors were equipped to collect respirable particulate 10 microns or less in size. The monitors collected data at a one-minute (or less) interval, which were recorded for the full shift. Data from each monitor was downloaded at the end of each shift and reviewed to determine if respirable particulate levels were acceptable.

- **VOCs:** Real-time monitoring for VOCs was performed at each site perimeter location for the duration of each shift. VOC monitoring was performed using a calibrated RAE Systems, Inc. PID such as the RAE Systems MultiRAE Plus and AreaRAE PID. The meters were formatted to record data at a one-minute interval and log the data for download at the end of the shift. Data was reported as total VOCs.

3.3.4.7 Personal Air Monitoring (Exposure Assessment)

Personal air monitoring was performed on selected employees performing remediation activities on a daily basis. Workers considered to have the greatest exposures participated in this monitoring. Monitoring was limited to one or two workers in each area of interest per day. The purpose of the monitoring was to document worker exposures as compared to the Occupational Safety and Health Administration's (OSHA) Permissible Exposure Levels (PELs) for the particulate and chemical constituents of concern. Results of personal samples were compared to applicable OSHA exposure limits. Personal air samples were collected for analysis for the following: Particulate Matter (respirable) NIOSH 0600 and Coal Tar Pitch Volatiles (OSHA 58).

Samples were collected using calibrated sample pumps using laboratory-recommended procedures. Sampling media was submitted to Galson Laboratories in East Syracuse, New York, initially for 24-hour turnaround time.

- **Air Monitoring Results:**

  Respirables (personal air monitoring): All samples collected for the northern tract and southern tract excavations were below the action limit of 3.0 mg/m^3.

  CTPVs (personal air monitoring): All samples collected for the northern tract and southern tract excavations were below the action limit of 0.2 mg/m^3.

  PAHs (perimeter air monitoring): All samples collected for the northern tract and southern tract excavations were below the action limits for the constituents of concern.

  VOCs (perimeter air monitoring): Two monitoring locations on the southern tract sustained readings greater than the action limit of 0.5 ppm for longer than 5 minutes; these locations were the Work Area W Perimeter, collected on 12/14/2011 (this location was set too close to excavation Area L, and was moved to the site perimeter at a later date), and the East Perimeter, collected on 12/15/2011. All other monitoring locations on the southern tract did not contain sustained reading above the action level for greater than 5 minutes.

  Three monitoring locations on the northern tract sustained readings greater than the action limit of 0.5 ppm for longer than 5 minutes; these locations were the South Perimeter 1, collected on 1/16/2012 and 1/19/2012 (this location was set too close to excavation Area J, and was moved to the site perimeter at a later date); the South Perimeter 2, collected on 2/6/2012, 2/7/2012, and 2/8/2012; and the Northwest Perimeter, collected on 1/16/2012. All other monitoring locations on the northern tract did not contain sustained reading above the action level for greater than 5 minutes.

  Particulates (perimeter air monitoring): All monitored daily averages were below the action limit of 0.15 mg/m^3 for the southern tract. One monitored daily average from the northern tract, collected on 2/2/2012 from the South Perimeter 2, was above the action limit of 0.15 mg/m^3.

VOCs (work area air monitoring): All monitoring locations on the southern tract did not sustain readings above the action limit of 1.0 ppm for longer than 5 minutes. One monitoring location on the northern tract sustained readings greater than action limits for longer than 5 minutes; this monitoring location was Work Area 3, collected on 1/13/2012.

Particulates (work area air monitoring): All monitored daily averages were below the action limit of 3.0 mg/m^3 for northern tract and southern tract.

3.3.5 Sediment Removal

In December 2012, sediments from two point bar areas (Area A and Area B) within Clear Creek, immediately adjacent to the site, were removed (Figure 5). The purpose of the work was to remove sediments with residual impacts from the historic creosote manufacturing operations found within Clear Creek, South of Country Club Drive. See section 3.4.1 for permitting approvals. The two sediment removal areas were dewatered with the assistance of a series of aqua dams and trash pumps; the aqua dams assisted in diverting the creek channel around the sediment removal areas, reducing the amount of water in the removal areas, creating a dry work zone. The aqua dams also assisted in retaining and impacts that mobilized during the sediment removal. The depth of sediments removed, residing atop the creek bed, ranged from six inches to three feet. Sediment removal Area A extended for approximately 270 feet, and sediment removal Area B extended for approximately 165 feet within Clear Creek. Machinery used to assist in the sediment removal activities accessed the creek from a temporary access roadway (section 3.4.4) constructed adjacent to the west bank of Clear Creek. A total of 550.29 tons of sediment were removed, dewatered, and transported to Twin Bridges RDF Waste Management Subtitle D facility located in Danville, Indiana (Appendix C), for disposal. See SLERA for sediment and water analysis.

3.3.6 Remedial Compound(s) Construction

In 2014, two temporary storage areas used for remediation activities were constructed at the Site (Figure 6). From March 2014 through April 2014, a storage compound was constructed on Lot #3 (Figure 6), located south of Country Club Drive and east of Clear Creek (eastern compound). The eastern compound consists of a 40'x40'x8' chain link fenced compound, containing a 20'x20'x4" concrete pad. The purpose of the eastern compound is for the storage of fifty-five (55) gallon drums containing characteristically hazardous classified creosote impacted groundwater that were generated from wells located east of Clear Creek. See section 3.4.1 for permitting.

From September 2014 through November 2014, a temporary storage building, and compound was constructed south of Country Club Drive, west of Clear Creek (western compound), outside of the floodplain (Figure 6). The western compound consists of an 80'x50'x8' chain link fenced compound, containing a 60'x40'x4" concrete pad, and a 36'x32' post frame building. The purpose of the western compound is for the storage of remediation equipment necessary for DNAPL removal, and for the storage of fifty-five (55) gallon drums containing characteristically hazardous classified creosote impacted groundwater that was generated from wells located west of Clear Creek. See section 3.4.1 for permitting.

3.4 Permit Applications, Submittals & Requirements

3.4.1 DNR, ACE, City of Bloomington & Monroe County

Permits were required to perform excavation and construction activities at the Site due to the planned work taking place within the Clear Creek flood plain. A total of three permits were submitted and approved prior to the implementation of the excavation of creosote bleed soils and impacted surface soils, temporary access roadway construction, drainage ditch culvert installation, removal of sediment from Clear Creek, and completion of a remediation and storage building. These permits include:

- Army Corp of Engineers (ACE) – NWP-38 Permit No. LRL-2010-358-kjs; jurisdiction over waters of the United States (Clear Creek and Site wetlands).
- Indiana Department of Environmental Management (IDEM) – 401 WQC Permit No. 2011-147-53-DDC-A; jurisdiction over Clear Creek, Clear Creek flood plain, and Site wetlands.
- Indiana Department of Natural Resources (IDNR) – Construction in a Floodway Permit No. FW-25726; jurisdiction over Clear Creek, Clear Creek flood plain, Site wetlands, and Site vegetation and wildlife.

Additional permits were required to perform the temporary roadway construction activities on the southern tract of the Site. Two permits were submitted and approved prior to the implementation of the construction of temporary access roads throughout the southern tract of property.

- Monroe County Highway Department Driveway Permit No. 2011234; jurisdiction south of Country Club Drive, west of Clear Creek.
- City of Bloomington Engineering Department Right of Way Excavation Permit No. C11-ROW-232; jurisdiction south of Country Club Drive, east of Clear Creek.

A building permit was required to construct the remediation compound on the southern tract of the Site, west of Clear Creek. One permit was submitted and approved prior to the implementation of the construction of the remediation compound building.

- Monroe County Building Department Building Permit No. 2014-0208; jurisdiction south of Country Club Drive, west of Clear Creek.

A Use Variance was petitioned for and granted by the City of Bloomington Planning Commission for the construction of a temporary outside storage area located in Lot #3, located south of Country Club Drive, and east of Clear Creek. A Variance was also petitioned for and granted by the City of Bloomington Planning Commission for the construction of an 8’ tall security fence around the temporary storage area located on Lot #3.

- City of Bloomington Board of Zoning Appeals, October 24, 2013, Petition UV/V-47-13.

A copy of the various approved permits is included as Appendix E.

3.4.2 Tree Mitigation

In order to facilitate the excavation of creosote bleed soils and impacted surface soils, trees within the Clear Creek floodplain were required to be removed. In accordance with the IDNR Construction in a Floodway Permit No. FW-25726, any trees removed at sizes greater than 10 inches diameter-at-breast-

height (DBH) were required to be replaced with approved native trees at sizes greater than 2 inches DBH at a rate of 5:1. A total of eighteen (18) trees at sizes greater than 10 inches DBH were removed as part of the soil excavation activities. Tree species removed include: green ash, American elm, black walnut, boxelder, sycamore, and cottonwood. In accordance with the Construction in a Floodway Permit No. FW-25726, these trees were to be replaced at a 5:1 ratio (90 trees), within twelve months of the project initiation (December 12, 2012). In October 2012, ninety-one (91) trees were planted within five (5) separate excavation areas (zones); see Figure 7. The native Indiana tree species planted included: red bud, tulip poplar, sugarberry, northern pecan, burr oak, swamp white oak, and chinquapin oak.

The ninety-one (91) trees were inspected twice a year since their planting, up through September 2016. In accordance with the Construction in a Floodway Permit No. FW-25726, it is required to maintain a 75% survival rate for a period of at least four (4) years after the trees have been planted. As of September 2016, the conclusion of the four-year survival period, fourteen (14) of the ninety-one (91) trees had perished; resulting in an 84.6% survival rate. Annual tree reports were submitted to the IDNR, detailing the survival rates for years: 2013, 2014, 2015, and 2016. Arcadis petitioned to discontinue the annual tree monitoring and reporting program in the 2016 annual tree report. A letter from the IDNR granting the release from any further annual monitoring requirements was received on November 20, 2017.

3.4.3 Southern Culvert Installation

In February 2012, a 24-foot-long by 36-inch diameter concrete culvert was installed within a drainage ditch leading to Clear Creek, located south of County Club Drive and east of Clear Creek (Figure 8). The Culvert was placed to allow for temporary roadway access across the drainage ditch. In accordance with Army Corp of Engineers– NWP-38 Permit No. LRL-2010-358-kjs, all materials placed in the ditch channel, around the culvert and on the surface of the crossing were composed of rock or aggregate equal to or larger than No. 1 rock per the American Association of State Highway and Transportation (AASHTO) M 43 design. Rip Rap was utilized around the surface of the culvert and for stabilization on the along the sides of the access road across the culvert. No. 53 stone was used to finish and complete the temporary access roadway. A total of 189.60 tons of stone were used in the culvert installation and temporary access roadway construction.

3.4.4 Temporary Access Roads

Following interim restoration activities at the Site, temporary access roads were constructed and/or restored to improve site access and enable continued remediation and cleanup at the Site (Figure 8). Temporary access roads were constructed from December 2011 through February 2012.

3.4.4.1 Southern Tract

Approximately 2,600 linear feet of temporary access roads were constructed on the southern tract of property to enable continued remediation and cleanup onsite that required the use of vehicles and heavy equipment for remedial activities. The gravel access roads consisted of a combination of #53 stone, #2 stone, and #4 stone, depending on the moisture content of the ground surface. The gravel access roads were constructed to an approximate width of 10 feet and to a height of no greater than four inches above existing grade. A section of the temporary access road where it crossed a wetland was required by

IDEM's 401 WQC Permit No. 2011-147-53-DDC-A to be constructed by placing crane matting in the affected area.

As mentioned in section 3.4.3, a 24-foot-long by 36-inch diameter concrete culvert was installed within an unnamed drainage ditch on the east side of Clear Creek. The temporary culvert was installed to allow for a temporary access road to span the drainage ditch, which leads to Clear Creek. This temporary access road will enable continued remediation and cleanup onsite that required the use of vehicles and heavy equipment for remedial activities.

Two (2) temporary gravel access driveways were also constructed on the southern side of Country Club Drive, at the entrance to the southern tract of the property. One driveway is located on the west side of Clear Creek, and the other driveway is located on the east side of Clear Creek. These temporary gravel driveways connect the temporary access roads within the southern tract to Country Club Drive.

The temporary access roads will be removed once remedial objectives for regulatory closures at the Site are met. If necessary, clean fill material will be used to return the disturbed areas to original grade and elevation after the removal of the temporary roadways. The affected wetland area will then be planted with a marsh-appropriate seed mixture.

3.4.4.2 Northern Tract

The historical property (access roadways) on the northern tract that were disturbed during excavation of Area J were also restored. Prior to excavation of Area J, there was a pre-existing, historical gravel access road which ran north-south through the Site. After Area J was backfilled completely, the gravel access road was reconstructed through Area J. A gravel apron was also re-constructed to allow for drive up access to the on-site conex box; the conex box has since been relocated adjacent to the western remediation compound. Gravel was also dispersed within soft spots in other areas of the pre-existing, historical gravel roadway, where dump trucks and equipment had travelled within the northern tract of property.

3.5 Other Items

3.5.1 City Culvert Repair

The City of Bloomington, Indiana, proposed to replace an existing 30-inch diameter storm water drainage culvert pipe which had fallen into disrepair. The 30-inch diameter culvert spanned approximately 235 feet in an east-west direction across the northern tract of CSX Transportation, Inc. (CSX) property, located at 240 Country Club Drive, Bloomington, Indiana; approximately 450 feet south of the northern tract entrance gate. The existing culvert began approximately 30 feet west of the CSX property boundary, and terminated on CSX property, approximately 50 feet east of Clear Creek.

The City of Bloomington was made aware that the area of the proposed culvert replacement would be conducted in an area of know soil contamination, and the Site on which the proposed project is to be conducted has been enrolled into IDEM's Voluntary Remediation Program and would thus require workers who have completed the 40-hour OSHA Hazardous Waste Operator (HAZWOPER) Training. The City of Bloomington was made aware that the ongoing site cleanup was being managed by CSX and/or its agent Arcadis, and that the culvert replacement would require close coordination with CSX and

Arcadis. The proposed culvert replacement was approved by Paul J. Kurzanski, REM (former CSX Manager Environmental Remediation) and by Steve Sharp (Arcadis Senior Project Manager) in 2011.

The City of Bloomington proposed to replace the existing culvert with a new 36-inch diameter x 246-foot-long reinforced concrete pipe along a similar alignment as the existing culvert. The new culvert was proposed to be backfilled with a 12-inch cap of compacted #53 stone and treated at each end of the pipe with riprap on geotextile. The City of Bloomington and Crider & Crider (contractor) stated that their plans called for that the bottom of the replacement culvert shall be the same as the pre-existing culvert; and that the replacement culvert shall be constructed with a slope -1.22° under CSX property, toward Clear Creek.

3.5.1.1 Waste Characterization Samples

The proposed culvert replacement area was titled Area U; and four grid boxes were spaced evenly across Area U, within CSX property. For each grid box, there were four individual borings randomly placed and installed to six feet bgs. The soils were segregated into two depth ranges for sampling, 0-2 ft bgs and 2-6ft bgs. The proposed borings for the area closest to Clear Creek (Area U GB-4) were only completed to 2ft bgs. The soil samples were shipped to Accutest Laboratories in Orlando, Florida, and analyzed for Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs), TCLP Semi Volatile Organic Compounds (SVOCs), and TCLP Metals. The analytical data associated with the referenced waste characterization soil samples indicate that all compounds analyzed were below laboratory detection limits. The concentrations were evaluated against the 2009 Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) Default Residential Closure Levels.

3.5.1.2 Project Activities

Project activities began on November 7, 2011, with Crider & Crider mobilizing equipment and concrete culvert piping sections onto CSX property. On November 8, 2011, Crider & Crider began to excavate the existing storm water drainage culvert under the City of Bloomington's B-Line, to the west of the Site. The soils/debris and culvert associated with this property were staged on top of plastic sheeting, as per CSX and ARCADIS instruction, within the CSX property boundary. It was Crider & Crider's plan to install the new sections of culvert as the older sections of culvert were removed.

Prior to placing the first section of replacement culvert to the west of the B-Line, Crider & Crider reviewed the plans provided by the City of Bloomington Engineering Department; and determined that the replacement culvert shall be constructed with a slope of -1.22° under CSX property, toward Clear Creek. Crider & Crider then installed the initial culvert sections at the same level as where the bottom of where the pre-existing culvert rested, and with a slope of -1.22°, toward Clear Creek. Upon removing the pre-existing culvert near the CSX property boundary, it was noted by Arcadis field personnel, Crider & Crider, and City of Bloomington Engineering Department that the existing culvert, once installed, may be above the ground surface once it crosses onto CSX property. Arcadis project managers were notified immediately of this issue.

On November 10, 2011, Crider & Crider returns to the site and removes the remaining sections of the pre-existing culvert and continues to install new culvert sections across the CSX property; moving towards Clear Creek. Arcadis field staff notes that the newly installed culvert sections are approximately

1.0 foot above ground surface as they cross onto CSX property. Arcadis project managers were again immediately notified of this issue. Crider & Crider installed the last piece of culvert on November 12, 2011; Arcadis noted an area of contaminated soils just east of the old concrete retaining wall, near the culvert outflow. Riprap was placed around the intake and outflow of the culvert, and the per the City of Bloomington Engineering Department plans, the trench was backfilled with #53 stone, with an additional 1.0 foot of #53 stone placed atop the culvert.

3.5.1.3 Site Restoration

The City of Bloomington was required by CSX and Arcadis to restore vehicular access to the northern tract of CSX property, due to the improper planning and installation of the storm water drainage culvert across the site. In December 2011, Crider & Crider removed approximately 9 inches of gravel from atop the culvert; leaving only 3 inches of #53 stone atop the culvert. Crider & Crider then utilized the excess soil piles from the culvert replacement to construct a gentle slope away from the culvert piping on both the north and south sides of the culvert. Crider & Crider also constructed two 50'x12'x8" concrete pads over the culvert piping for CSX and Arcadis to continually access the northern tract of CSX property with heavy vehicular traffic.

3.5.2 Clear Creek Inspection Walks

Arcadis performs a walk-through of Clear Creek, which flows adjacent to the property, on a frequency of at least once per year. During the creek walk, Arcadis monitors for the presence of sheens and/or creosote bleeds emanating from the bedrock fractures along the creek bottom. The creek is inspected for the entire distance it traverses adjacent to the Site. The most recent creek walk was completed on July 27, 2018. No sheens have been observed during these inspections.

3.5.3 Public Open House

In November 2011, Arcadis developed a Community Relations Plan (CRP). The purpose of the CRP was to outline the program that CXS and Arcadis implemented to communicate with the community, government officials, and other interested parties to keep them informed about site activities during the VRP process. The CRP also seeks to increase community awareness and understanding of site activities and outline opportunities for public input in the process.

On December 7, 2011, CSX and Arcadis conducted a public open house meeting at Lora L. Batchelor Middle School. The purpose of the public open house was to inform the public of a large soil removal project in the near future at the Site (see section 3.3.4); and that CSX and Arcadis would be monitoring the Site continuously to ensure public safety.

3.5.4 Waste Management

Under the management of Arcadis, CSX has generated several waste streams at the Site since October 2011. Waste stream classifications include: hazardous, non-hazardous, and recyclables. Below is a list of waste streams, noting their final destination and amounts generated through December 2018:

- Soil: WM-Twin Bridges Landfill, Danville, IN, Non-Hazardous - 9,051.69 tons.

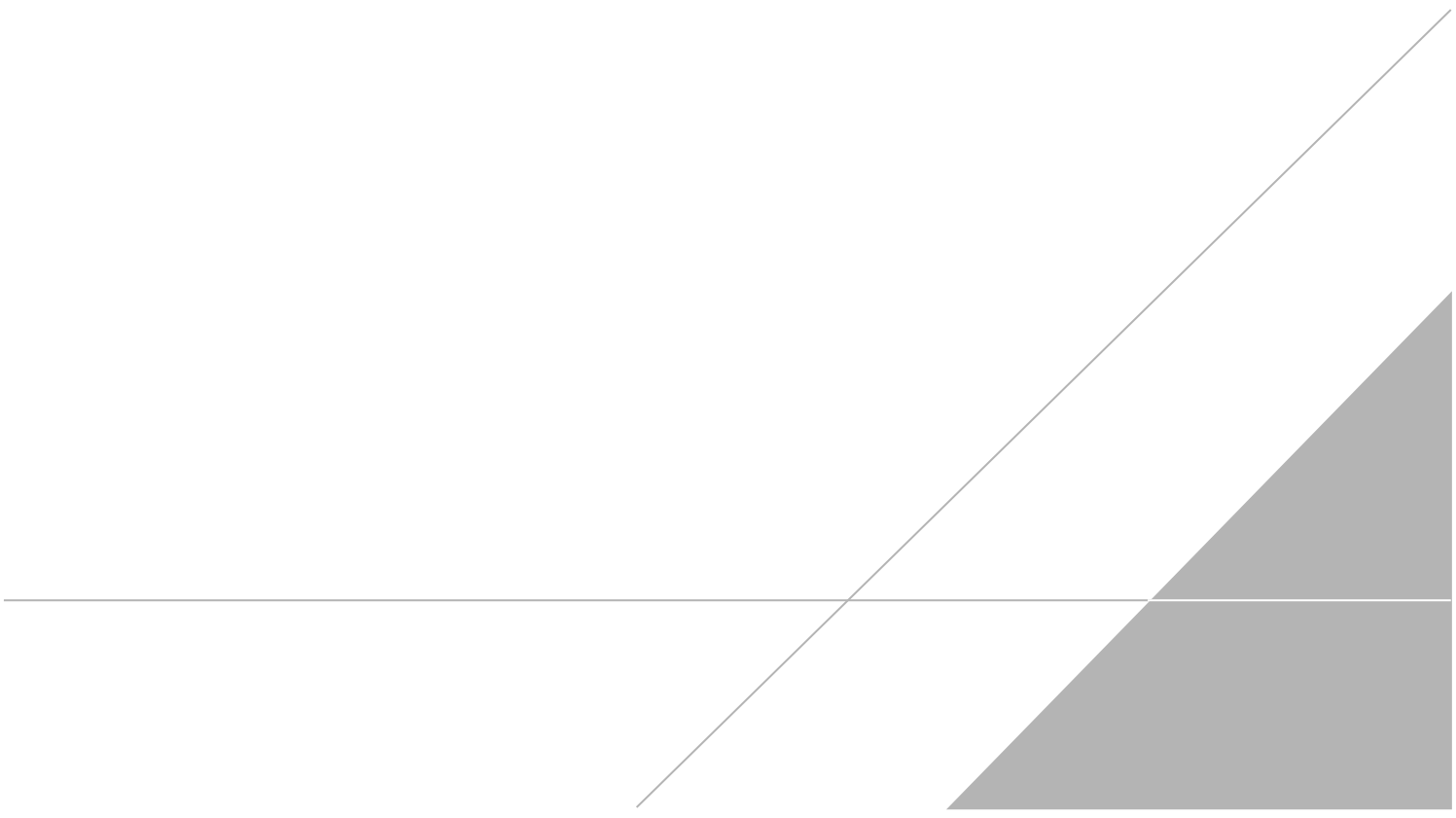
- Sediment: WM-Twin Bridges Landfill, Danville, IN, Non-Hazardous - 530.54 tons.
- Drilling and Purge Water: WM-Twin Bridges Landfill, Danville, IN, Non-Hazardous - 84.01 tons.
- Drill Cuttings: WM-Twin Bridges Landfill, Danville, IN, Non-Hazardous - 13.59 tons.
- DNAPL and Water Mixture: WM-Model City, NY/Ross-Grafton, OH; Hazardous - 7,650 gallons.
- DNAPL and Soil/Rock Mixture: WM-Model City, NY; Hazardous – ~1.45 tons.
- PPE/Trash/Debris: Heritage, WM-Twin Bridges Danville, IN/Ross-Grafton, OH; Non-Hazardous - 1.73 tons.
- Creosote Impacted Solids/Bulk Debris: WM-Twin Bridges Landfill, Danville, IN Non-Hazardous, - 9.98 tons.
- General Trash and Debris: WM-Twin Bridges Landfill, Danville, IN, Non-Hazardous - 12.31 tons.
- Railroad Cross Ties: CSX Hawthorne Yard, Indianapolis, IN, Recycled - 25 railroad ties.
- Tires: Grooms Tire Recycling, Indianapolis, IN, Recycled - 11 tires.
- Scrap Metal: JB Salvage, Bloomington, IN, Recycled - 0.685 tons.

4. CONCLUSION

Arcadis has prepared this Current Conditions Report, at the request of CSX for the former Indiana Creosoting Facility located at 240 Country Club Drive, Bloomington, Monroe County, Indiana. This report documents the site activities that occurred from October 2011 through December 7, 2018.

CSX, with the assistance of Arcadis, has conducted multiple investigations to limit the exposure pathways and exposure routes for the current and future use of the Site, and to reduce movement of the free product creosote on-site and off-site associated with this project. Based on the data to date, there appears to be minimal or no risk associated with the creosote impacts at the Site. CSX and Arcadis will continue to work with the IDEM to ensure there is no risk to human health and the environment from the residual creosote from the former operations of the Indiana Creosoting Company.

TABLES



ARCADIS

Table 1. Site Constituent of Concern List
Former Indiana Creosoting Company
Bloomington, Indiana

	Closure Limits		
	mg/L	mg/L	mg/L
Polycyclic Aromatic Hydrocarbons	**Industrial**	**Residential**	**Laboratory Run Detection Limit**
Acenaphthene	6.13	1.82	**Note 1**
Acenaphthylene	0.73	0.071	**Note 1**
Anthracene	31	9.12	**Note 1**
Benzo(a)anthracene	0.01	0.0001	**Note 1**
Benzo(a)pyrene	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	***	***	**Note 1**
Benzo(k)fluoranthene	0.039	0.0002	**Note 1**
Carbazole	0.14	0.043	**Note 1**
Chrysene	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	0.01	0.0003	**Note 1**
Dibeznofuran	0.2	0.015	**Note 1**
Fluoranthene	0.818	0.243	**Note 1**
Fluorene	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	0.01	0.0	**Note 1**
2-Methlynaphthalene	0.41	0.031	**Note 1**
Naphthalene	4.09	1.22	**Note 1**
Phenanthrene	0.310	0.023	**Note 1**
Pyrene	3.07	0.912	**Note 1**
BTEX			
Benzene	0.099	0.005	**0.005**
Toluene	10.2	0.7	**0.7**
Ethylbenzene	20.4	1	**1**
Exylenes	204	10	**1**
Phenolic Compounds			
2,4-Dimethylphenol	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	5.11	1.52	**Note 1**
Pentachlorophenol	0.05	0.001	**Note 1**
2,4-Dichlorophenol	0.31	0.11	**Note 1**
Phenol	12	3.65	**Note 1**
2,4,6-Trichlorophenol	0.26	0.01	**Note 1**
Phthalates			
Butylbenzylphthalate	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	0.204	0.006	**Note 1**
Metals			
Arsenic	0.05	0.05	**0.005**
Lead	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

Table 2. Well Construction Details
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID Monitoring Wells	Unit Screened	Date Completed	Northing Coordinate (ft.)	Easting Coordinate (ft.)	Measuring Point (TOC) Elev. (ft. AMSL)	Ground Surface Elev. (ft. AMSL)	TOC (manhole and protop) (ft. ags)	Depth Below Ground Surface (ft. bgs)	Depth to Screened or Open Interval (ft. bgs)		Depth to Screened Interval (from TOC)		Elev. of Screened Interval (ft. AMSL)		Screen or Open Hole Length (ft.)	Well Diam. (in.)	Casing/Screen Type	Screen Slot Size (in.)	Sump Length (ft.)	Estimated Hydraulic Conductivity (K) (ft/day)	K Test Method
									Top	Bottom	Top	Bottom	Top	Bottom							
MW-1S (Abnd)	Alluvium	2/21/1991	1417895.23	3108446.63	700.84	697.8	3.04	10.0	5.0	10.0	8.0	13.0	692.8	687.8	5.0	2	SS	0.010	--	--	--
MW-1D	URC	2/8/1991	1417902.94	3108445.62	700.07	698.0	2.04	19.5	13.0	19.5	15.0	21.5	685.0	678.5	6.5	2	SS	0.010	--	0.88	SL
MW-2S (Abnd)	Alluvium	2/12/1991	1416988.19	3108609.77	696.04	692.2	3.86	6.0	1.0	6.0	4.9	9.9	691.2	686.2	5.0	2	SS	0.010	--	--	--
MW-2D (Abnd)	URC	2/13/1991	1416994.33	3108610.85	694.34	692.4	1.97	15.5	10.5	15.5	12.5	17.5	681.9	676.9	5.0	2	SS	0.010	--	0.6	SL
MW-3S (Abnd)	Alluvium	2/14/1991	10007.97	10255.90	692.89	Abnd	4.15	6.0	1.0	6.0	5.2	10.2	--	--	5.0	2	SS	0.010	--	--	--
MW-3D (Abnd)	URC	2/13/1991	10008.22	10265.13	691.65	Abnd	3.50	13.5	8.5	13.5	12.0	17.0	--	--	5.0	2	SS	0.010	--	--	--
MW-4S (Abnd)	Alluvium	2/19/1991	1415996.15	3108486.15	690.80	687.6	3.24	7.5	2.5	7.5	5.7	10.7	685.1	680.1	5.0	2	SS	0.010	--	--	--
MW-4D (Abnd)	URC	2/20/1991	1416009.91	3108488.22	690.30	687.4	2.87	16.0	11.0	16.0	13.9	18.9	676.4	671.4	5.0	2	SS	0.010	--	--	--
MW-5S	Alluvium	2/19/1991	1415833.95	3108382.98	690.67	688.0	2.72	10.0	5.0	10.0	7.7	12.7	683.0	678.0	5.0	2	SS	0.010	--	5.0	SL
MW-5D	URC	2/19/1991	1415844.48	3108389.68	690.35	687.7	2.67	20.0	15.0	20.0	17.7	22.7	672.7	667.7	5.0	2	SS	0.010	--	0.14	SL
MW-6S	Alluvium	2/20/1991	1415629.34	3108218.04	691.37	687.6	3.79	6.5	1.5	6.5	5.3	10.3	686.1	681.1	5.0	2	SS	0.010	--	--	--
MW-6D	URC	2/20/1991	1415638.46	3108218.93	690.54	687.8	2.78	16.0	11.0	16.0	13.8	18.8	676.8	671.8	5.0	2	SS	0.010	--	--	--
MW-7S (Abnd)	Alluvium	2/15/1991	10020.80	10048.82	696.93	Abnd	2.84	10.5	5.5	10.5	8.3	13.3	--	--	5.0	2	SS	0.010	--	--	--
MW-7D (Abnd)	URC	2/18/1991	10029.07	10050.68	696.71	Abnd	3.05	20	15.0	20.0	18.1	23.1	--	--	5.0	2	SS	0.010	--	--	--
MW-8S	Alluvium	10/18/1995	1416253.66	3108479.08	691.66	688.6	3.06	6.0	2.5	6.0	5.6	9.1	686.1	682.6	3.5	2	PVC	0.010	--	--	--
MW-8D	URC	10/18/1995	1416248.55	3108478.08	690.63	688.6	1.98	13.0	8.0	13.0	10.0	15.0	680.6	675.6	5.0	2	PVC	0.010	--	--	--
MW-9	Alluvium	9/25/2000	1417920.79	3108419.90	701.33	698.4	2.96	8.0	3.0	8.0	6.0	11.0	695.4	690.4	5.0	2	PVC	0.010	--	--	--
MW-10	Alluvium	9/25/2000	1417795.81	3108477.12	699.66	696.5	3.18	8.0	3.0	8.0	6.2	11.2	693.5	688.5	5.0	2	PVC	0.010	--	--	--
MW-11S (And)	Alluvium	9/25/2000	1417810.83	3108571.69	700.06	696.5	--	8.0	3.0	8.0	--	--	693.5	688.5	5.0	0.5	PVC	0.010	--	--	--
MW-11D	URC	9/25/2000	1417791.13	3108601.61	699.75	696.8	2.98	19.1	9.1	19.1	12.1	22.1	687.7	677.7	10.0	2	PVC	0.010	--	--	--
MW-12S	Alluvium	10/20/2000	1416597.02	3108586.20	692.76	689.7	3.09	7.0	2.0	7.0	5.1	10.1	687.7	682.7	5.0	2	PVC	0.010	--	4.9	SL
MW-12D	URC	9/25/2000	1416604.42	3108583.74	692.91	689.8	3.13	17.3	7.3	17.3	10.4	20.4	682.5	672.5	10.0	2	PVC	0.010	--	18.1	SL
MW-13 (Abnd)	Alluvium	10/20/2000	1416404.54	3108521.53	692.47	689.0	3.42	7.0	2.0	7.0	5.4	10.4	687.0	682.0	5.0	2	PVC	0.010	--	--	--
MW-14S (Abnd)	Alluvium	7/30/2003	1416679.48	3108559.76	694.15	690.9	3.26	5.75	3.0	5.75	6.3	9.0	687.9	685.1	2.8	2	PVC	0.010	--	--	--
MW-14D (Abnd)	URC	8/5/2003	1416678.52	3108555.85	693.80	690.8	2.97	16.5	10.5	16.5	13.5	19.5	680.3	674.3	6.0	2	PVC	0.010	--	--	--
MW-15S (Abnd)	Alluvium	7/31/2003	10065.06	10112.34	695.06	Abnd	3.12	6.0	3.0	6.0	6.1	9.1	--	--	3.0	2	PVC	0.010	--	--	--
MW-15D	URC	7/31/2003	1416544.00	3108433.43	694.81	691.7	3.07	17.0	12.0	17.0	15.1	20.1	679.7	674.7	5.0	2	PVC	0.010	--	--	--
MW-16S	Alluvium	7/31/2003	1416626.73	3108435.56	695.12	691.9	3.22	6.3	3.3	6.3	6.5	9.5	688.7	685.7	3.0	2	PVC	0.010	--	--	--
MW-16D	URC	7/31/2003	1416623.15	3108432.47	694.91	691.7	3.16	17.0	11.0	16.0	14.2	19.2	680.7	675.7	5.0	2	PVC	0.010	--	--	--
MW-17S	Alluvium	7/31/2003	1416407.52	3108396.27	694.42	691.6	2.86	8.0	3.0	8.0	5.9	10.9	688.6	683.6	5.0	2	PVC	0.010	--	67.0	SL
MW-17D	URC	8/4/2003	1416406.86	3108401.94	694.41	691.2	3.26	16.5	14.0	19.0	17.3	22.3	677.2	672.2	5.0	2	PVC	0.010	--	4.20E-04	RE
MW-18S	Alluvium	8/1/2003	1416232.85	3108430.26	692.02	688.7	3.29	7.0	4.0	7.0	7.3	10.3	684.7	681.7	3.0	2	PVC	0.010	--	42.0	SL
MW-18D	URC	8/1/2003	1416233.06	3108435.96	691.55	688.7	2.89	17.0	11.5	16.5	14.4	19.4	677.2	672.2	5.0	2	PVC	0.010	--	--	--
MW-19S	Alluvium	7/31/2003	1416179.13	3108493.41	691.06	687.7	3.36	5.0	2.0	5.0	5.4	8.4	685.7	682.7	3.0	2	PVC	0.010	--	--	--
MW-19D	URC	7/31/2003	1416179.42	3108486.81	691.29	688.0	3.29	17.0	11.5	16.5	14.8	19.8	676.5	671.5	5.0	2	PVC	0.010	--	--	--
MW-20S	Alluvium	10/24/2003	1416395.66	3108643.90	691.16	690.8	0.40	5.0	4.0	5.0	4.4	5.4	686.8	685.8	1.0	2	PVC	0.010	--	--	--
MW-20D	URC	10/27/2003	1416390.73	3108640.74	691.54	688.7	2.88	23.0	8.0	23.0	10.9	25.9	680.7	665.7	15.0	2	PVC	0.010	--	0.5	SL
MW-21S	Alluvium	10/24/2003	1416315.74	3108721.48	688.99	686.8	2.24	4.0	3.0	4.0	5.2	6.2	683.8	682.8	1.0	2	PVC	0.010	--	--	--
MW-21D	URC	10/27/2003	1416311.97	3108721.74	688.40	686.3	2.12	25.0	10.0	25.0	12.1	27.1	676.3	661.3	15.0	2	PVC	0.010	--	2.95	SL
MW-22D	URC	10/27/2003	1416204.39	3108689.19	688.35	685.2	3.11	23.0	18.0	23.0	21.1	26.1	667.2	662.2	5.0	2	PVC	0.010	--	--	--
MW-23D	URC	10/22/2003	1416052.50	3108600.72	687.96	684.7	3.28	21.0	16.0	21.0	19.3	24.3	668.7	663.7	5.0	2	PVC	0.010	--	0.091	SL
MW-24A	URC	7/24/2008	1416157.04	3108669.15	687.30	685.0	2.33	24.0	17.0	22.0	19.3	24.3	668.0	663.0	5.0	2	PVC	0.010	2.0	0.025	SL
MW-25A	URC	7/28/2008	1416376.60	3108504.38	692.65	689.5	3.12	20.5	8.5	18.5	11.6	21.6	681.0	671.0	10.0	2	PVC	0.010	2.0	--	--
MW-26A	LRC	8/5/2008	1416002.33	3108319.28	692.00	689.4	2.56	39.0	32.0	37.0	34.6	39.6	657.4	652.4	5.0	2	PVC	0.010	2.0	1.50E-05	RE
MW-27A (Abnd)	URC	8/7/2008	1416165.25	3108775.04	689.81	686.0	3.84	31.0	19.0	29.0	22.8	32.8	667.0	657.0	10.0	2	PVC	0.010	2.0	7.4	SL
MW-28A	BOR	1/20/2009	1415412.81	3108678.45	692.22	689.1	3.11	62.0	47.0	62.0	50.1	65.1	642.1	627.1	15.0	2	PVC	0.010	--	5.30E-05	RE
MW-28B	URC	1/20/2009	1415408.71	3108681.93	692.28	688.9	3.40	22.71	17.7	22.7	21.1	26.1	671.2	666.2	5.0	2	PVC	0.010	--	67.4	ST
MW-28C	LRC	1/20/2009	1415415.92	3108674.70	692.71	689.5	3.23	35.70	25.7	35.7	28.9	38.9	663.8	653.8	10.0	2	PVC	0.010	--	1.60E-03	RE
MW-29A	BOR	2/4/2009	1416557.65	3108416.42	695.78	692.7	3.09	72.00	57.0	72.0	60.1	75.1	635.7	620.7	15.0	2	PVC	0.010	--	1.30E-04	RE
MW-29B	LRC	2/6/2009	1416570.18	3108417.17	696.37	692.9	3.51	39.00	29.0	39.0	32.5	42.5	663.9	653.9	10.0	2	PVC	0.010	--	3.30E-04	RE
MW-30A	URC	10/14/2009	1415861.58	3108297.80	691.39	688.6	2.80	30.50	23.0	28.0	25.8	30.8	665.6	660.6	5.0	2	PVC	0.010	2.5	11.7	SL
MW-30B	LRC	10/16/2009	1415872.70	3108297.95	691.58	688.8	2.80	46.00	38.5	43.5	41.3	46.3	650.3	645.3	5.0	2	PVC	0.010	2.5	1.40E-04	RE
MW-31A	URC	10/20/2009	1416532.35	3108915.72	692.88	690.6	2.29	24.00	11.5	21.5	13.8	23.8	679.1	669.1	10.0	2	PVC	0.010	1.2	7.97	SL
MW-31B	BOR	10/23/2009	1416537.55	3108887.52	692.03	689.4	2.66	60.00	45.0	60.0	47.7	62.7	644.4	629.4	15.0	2	PVC	0.010	--	1.40E-04	RE
MW-31C	URC	10/26/2009	1416546.32	3108903.73	692.80	690.0	2.77	35.40	27.9	32.9	30.7	35.7	662.1	657.1	5.0	2	PVC	0.010	2.5	5.60E-05	RE
MW-32A	URC	10/28/2009	1415058.39	3108543.40	690.51	687.3	3.17	24.00	21.0	24.0	24.2	27.2	666.3	663.3	3.0	2	PVC	0.010	--	56.0	ST
MW-32B	LRC	4/10/2012	1415064.83	3108540.74	690.19	687.8	2.42	47.00	35.0	45.0	37.4	47.4	652.8	642.8	10.0	2	PVC/SS	0.010	2	--	--

Table 2. Well Construction Details
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID Monitoring Wells	Unit Screened	Date Completed	Northing Coordinate (ft.)	Easting Coordinate (ft.)	Measuring Point (TOC) Elev. (ft. AMSL)	Ground Surface Elev. (ft. AMSL)	TOC (manhole and protop) (ft. ags)	Depth Below Ground Surface (ft. bgs)	Depth to Screened or Open Interval (ft. bgs)		Depth to Screened Interval (from TOC)		Elev. of Screened Interval (ft. AMSL)		Screen or Open Hole Length (ft.)	Well Diam. (in.)	Casing/Screen Type	Screen Slot Size (in.)	Sump Length (ft.)	Estimated Hydraulic Conductivity (K) (ft/day)	K Test Method
									Top	Bottom	Top	Bottom	Top	Bottom							
MW-32C	URC	4/10/2012	1415064.83	3108540.74	690.18	687.8	2.41	31.00	26.0	31.0	28.4	33.4	661.8	656.8	5.0	2	PVC/SS	0.010	--	--	--
MW-33A (Abnd)	LRC	11/4/2009	1415561.51	3108934.06	703.07	703.2	-0.16	50.00	40.0	50.0	39.8	49.8	663.2	653.2	10.0	2	PVC	0.010	--	--	--
MW-33B (Abnd)	BOR	11/6/2009	1415562.86	3108944.16	704.53	704.8	-0.25	70.00	55.0	70.0	54.8	69.8	649.8	634.8	15.0	2	PVC	0.010	--	--	--
MW-33C (Abnd)	URC	11/9/2009	1415555.16	3108940.00	704.68	705.1	-0.37	35.00	20.0	35.0	19.6	34.6	685.1	670.1	15.0	2	PVC	0.010	--	--	--
MW-34A	URC	11/18/2009	1415520.15	3108236.87	688.01	685.2	2.83	27.00	17.0	27.0	19.8	29.8	668.2	658.2	10.0	2	PVC	0.010	--	7.35	SL
MW-35A	URC	2/9/2010	1416575.29	3108250.78	706.06	702.8	3.24	26.00	16.00	26.0	19.2	29.2	686.8	676.8	10.0	2	PVC	0.010	--	13.62	SL
MW-35B	URC	2/11/2010	1416566.13	3108247.47	706.37	703.1	3.23	27.00	24.00	27.0	27.2	30.2	679.1	676.1	3.0	2	PVC	0.010	--	55.14	SL
MW-35C	LRC	2/11/2010	1416566.33	3108247.65	706.38	703.1	3.24	45.00	31.50	45.0	34.7	48.2	671.6	658.1	13.5	2	PVC	0.010	--	8.10E-06	RE
MW-36A	URC	2/15/2010	1415933.13	3108183.00	700.44	697.1	3.35	24.50	19.50	24.5	22.9	27.9	677.6	672.6	5.0	2	PVC	0.010	--	15.69	SL
MW-36B	URC	2/15/2010	1415933.15	3108183.40	700.45	697.1	3.36	34.00	27.00	32.0	30.4	35.4	670.1	665.1	5.0	2	PVC	0.010	2.0	0.52	SL
MW-36C	LRC	2/17/2010	1415923.00	3108180.16	700.85	697.6	3.30	60.00	41.00	56.0	44.3	59.3	656.6	641.6	15.0	2	PVC	0.010	4.0	1.40E-06	RE
MW-37A	URC	2/18/2010	1415245.86	3108190.35	687.29	684.4	2.90	17.00	12.00	17.0	14.9	19.9	672.4	667.4	5.0	2	PVC	0.010	--	26.45	SL
MW-37B	URC	2/18/2010	1415245.94	3108190.15	687.23	684.4	2.84	32.00	22.00	32.0	24.8	34.8	662.4	652.4	5.0	2	PVC	0.010	--	13.85	SL
MW-37C	LRC	9/7/2011	1415244.30	3108179.23	686.88	684.4	2.47	46.00	34.00	44.0	36.5	46.5	650.4	640.4	10.0	2	PVC	0.010	2.0	--	--
MW-38A	URC	3/22/2010	1415995.39	3108849.97	700.99	698.2	2.80	32.00	25.00	30.0	27.8	32.8	673.2	668.2	5.0	2	PVC	0.010	2.0	35.65	SL
MW-38B	URC	3/23/2010	1416000.65	3108844.61	700.55	697.7	2.83	32.00	25.00	30.0	27.8	32.8	672.7	667.7	5.0	2	PVC	0.010	2.0	25.6	SL
MW-38C	BOR	3/26/2010	1415993.30	3108824.45	700.20	697.4	2.77	65.00	50.00	65.0	52.8	67.8	647.4	632.4	15.0	2	PVC	0.010	--	6.60E-05	RE
MW-38D	LRC	3/29/2010	1415976.60	3108839.29	700.37	697.7	2.66	47.50	35.50	45.5	38.2	48.2	662.2	652.2	10.0	2	PVC	0.010	2.0	8.70E-06	RE
MW-39A	URC	3/31/2010	1416229.31	3108891.16	694.06	694.4	-0.32	38.00	28.00	33.0	27.7	32.7	666.4	661.4	5.0	2	PVC	0.010	5.0	2.80E-05	RE
MW-39B	URC	3/30/2010	1416220.07	3108890.89	693.96	694.2	-0.23	29.00	17.00	27.0	16.8	26.8	677.2	667.2	10.0	2	PVC	0.010	2.0	8.25	SL
MW-40A	LRC	4/5/2010	1416871.16	3108552.33	694.36	692.1	2.30	46.00	29.00	44.0	31.3	46.3	663.1	648.1	15.0	2	PVC	0.010	2.0	0.045	SL
MW-40B	URC	4/6/2010	1416863.82	3108558.79	694.77	692.2	2.61	26.50	16.50	26.5	19.1	29.1	675.7	665.7	10.0	2	PVC	0.010	--	0.4	SL
MW-40C	URC	4/6/2010	1416863.82	3108558.79	694.78	692.2	2.62	13.50	8.50	13.5	11.1	16.1	683.7	678.7	5.0	2	PVC	0.010	--	2.15	SL
MW-41A	URC	11/3/2010	1415966.23	3109013.23	702.57	699.5	3.04	33.00	23.00	33.0	26.0	36.0	676.5	666.5	10.0	2	PVC	0.010	--	--	--
MW-42A	URC	11/4/2010	1416196.24	3109030.66	696.11	696.7	-0.56	36.00	26.00	36.0	25.4	35.4	670.7	660.7	10.0	2	PVC	0.010	--	--	--
MW-42B	LRC	11/8/2010	1416191.14	3109029.87	696.06	696.7	-0.59	46.00	36.00	46.0	35.4	45.4	660.7	650.7	10.0	2	PVC	0.010	--	--	--
MW-43A	URC	11/9/2010	1415359.16	3018710.84	690.93	688.1	2.87	26.00	16.00	26.0	18.9	28.9	672.1	662.1	10.0	2	PVC	0.010	--	--	--
MW-44A	URC	11/12/2010	1416863.13	3108311.75	704.46	701.5	2.92	25.00	15.00	25.0	17.9	27.9	686.5	676.5	10.0	2	PVC	0.010	--	--	--
MW-45A	LRC	11/16/2010	1416234.47	3108239.05	700.80	698.1	2.70	56.00	46.00	56.0	48.7	58.7	652.1	642.1	10.0	2	PVC	0.010	--	--	--
MW-45B	LRC	11/16/2010	1416234.49	3108239.03	700.76	698.1	2.66	40.00	30.00	40.0	32.7	42.7	668.1	658.1	10.0	2	PVC	0.010	--	--	--
MW-45C	URC	11/17/2010	1416230.41	3108239.23	700.59	698.4	2.17	22.00	12.00	22.0	14.2	24.2	686.4	676.4	10.0	2	PVC	0.010	--	--	--
MW-46A	URC	11/18/2010	1415229.64	3108035.77	688.81	686.8	2.06	36.00	24.00	34.0	26.1	36.1	662.8	652.8	10.0	2	PVC	0.010	2.0	--	--
MW-47A	URC	11/22/2010	1415356.15	3108185.27	683.38	680.8	2.60	30.00	20.00	30.0	22.6	32.6	660.8	650.8	10.0	2	PVC	0.010	--	--	--
MW-48A	LRC	1/6/2011	1415765.34	3108018.31	708.53	709.2	-0.62	72.00	60.00	70.0	59.4	69.4	649.2	639.2	10.0	2	PVC	0.010	2.0	--	--
MW-48B	LRC	1/6/2011	1415765.37	3108018.59	708.52	709.2	-0.63	53.00	38.00	53.0	37.4	52.4	671.2	656.2	15.0	2	PVC	0.010	--	--	--
MW-49A (Abnd)	LRC	7/28/2011	1417901.17	3108296.62	707.93	705.0	2.93	62.00	50.00	60.0	52.9	62.9	655.0	645.0	10.0	2	PVC	0.010	2.0	--	--
MW-49B (Abnd)	URC	7/28/2011	1417901.17	3108296.62	707.90	705.0	2.90	35.00	25.00	35.0	27.9	37.9	680.0	670.0	10.0	2	PVC	0.010	--	--	--
MW-49C (Abnd)	URC	7/28/2011	1417896.35	3108296.87	708.01	705.0	3.01	22.00	12.00	22.0	15.0	25.0	693.0	683.0	10.0	2	PVC	0.010	--	--	--
MW-50A	LRC	8/3/2011	1414987.03	3107235.43	697.53	698.0	-0.47	72.00	60.00	70.0	59.5	69.5	638.0	628.0	10.0	2	PVC	0.010	2.0	--	--
MW-50B	LRC	8/3/2011	1414987.03	3107235.43	697.54	698.0	-0.46	55.00	45.00	55.0	44.5	54.5	653.0	643.0	10.0	2	PVC	0.010	--	--	--
MW-51A	LRC	8/8/2011	1415523.63	3108065.14	693.66	691.9	1.79	57.00	43.00	53.0	44.8	54.8	648.9	638.9	10.0	2	PVC	0.010	4.0	--	--
MW-51B	URC	8/9/2011	1415519.24	3108062.55	694.66	691.8	2.86	29.00	17.00	27.0	19.9	29.9	674.8	664.8	10.0	2	PVC	0.010	2.0	--	--
MW-52A	URC	8/11/2011	1415206.05	3108841.93	709.63	710.1	-0.47	48.00	36.00	46.0	35.5	45.5	674.1	664.1	10.0	2	PVC	0.010	2.0	--	--
MW-53A	LRC	9/1/2011	1415847.84	3107373.79	725.77	726.1	-0.36	99.00	87.00	97.0	86.6	96.6	639.1	629.1	10.0	2	PVC	0.010	2.0	--	--
MW-53B	LRC	9/1/2011	1415847.84	3107373.79	725.76	726.1	-0.37	77.00	67.00	77.0	66.6	76.6	659.1	649.1	10.0	2	PVC/SS	0.010	--	--	--
MW-54A	LRC	4/12/2012	1415736.94	3108601.56	687.77	685.3	2.43	42.50	30.50	40.5	32.9	42.9	654.8	644.8	10.0	2	PVC/SS	0.010	2.0	--	--
MW-54B	URC	4/12/2012	1415736.94	3108601.56	687.79	685.3	2.45	25.50	15.50	25.5	17.9	27.9	669.8	659.8	10.0	2	PVC/SS	0.010	--	--	--
MW-55A	LRC	4/13/2012	1415992.98	3108484.71	689.69	687.6	2.13	39.00	27.00	37.0	29.1	39.1	660.6	650.6	10.0	2	PVC/SS	0.010	2.0	--	--
MW-55B	URC	4/13/2012	1415992.98	3108484.71	689.66	687.6	2.10	23.00	13.00	23.0	15.1	25.1	674.6	664.6	10.0	2	PVC/SS	0.010	--	--	--
MW-56A	LRC	4/17/2012	1414863.70	3108010.95	686.53	684.0	2.52	49.50	37.50	47.5	40.0	50.0	646.5	636.5	10.0	2	PVC/SS	0.010	2.0	--	--
MW-56B	URC	4/17/2012	1414863.70	3108010.95	686.58	684.0	2.57	33.50	23.50	33.5	26.1	36.1	660.5	650.5	10.0	2	PVC/SS	0.010	--	--	--
OW-1	Alluvium	2/14/1991	1416742.47	3108412.52	695.39	692.8	2.81	7.0	2.0	7.0	4.8	9.8	690.8	685.8	5.0	2	SS	0.010	--	--	--
OW-2	Alluvium	2/14/1991	1416742.84	3108480.71	695.03	691.7	3.20	7.0	3.0	7.0	6.2	10.2	688.7	684.7	4.0	2	SS	0.010	--	--	--
OW-3	Alluvium	2/14/1991	1416772.47	3108494.13	694.72	691.9	3.25	6.7	2.5	6.5	5.8	9.8	689.4	685.4	4.0	2	SS	0.010	--	--	--
P-1 (Abnd)	Alluvium	10/16/1995	10009.30	10360.69	692.35	689.1	3.26	5.9	1.9	5.9	5.2	9.2	687.2	683.2	4.0	2	PVC	0.010	--	--	--
P-2	Alluvium	10/17/1995	10295.64	10310.82	692.98	689.7	3.40	5.0	1.5	5.0	4.9	8.4	688.2	684.7	3.5	2	PVC	0.010	--	--	--

Table 2. Well Construction Details
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID Monitoring Wells	Unit Screened	Date Completed	Northing Coordinate (ft.)	Easting Coordinate (ft.)	Measuring Point (TOC) Elev. (ft. AMSL)	Ground Surface Elev. (ft. AMSL)	TOC (manhole and protop) (ft. ags)	Depth Below Ground Surface (ft. bgs)	Depth to Screened or Open Interval (ft. bgs)		Depth to Screened Interval (from TOC)		Elev. of Screened Interval (ft. AMSL)		Screen or Open Hole Length (ft.)	Well Diam. (in.)	Casing/Screen Type	Screen Slot Size (in.)	Sump Length (ft.)	Estimated Hydraulic Conductivity (K) (ft/day)	K Test Method
									Top	Bottom	Top	Bottom	Top	Bottom							
P-3 (Abnd)	Alluvium	10/17/1995	10551.56	10315.48	694.04	690.6	3.65	5.0	1.5	5.0	5.2	8.7	689.1	685.6	3.5	2	PVC	0.010	--	--	--
P-4	Alluvium	10/17/1995	10731.04	10324.11	695.06	691.1	1.00	5.0	1.5	5.0	2.5	6.0	689.6	686.1	3.5	2	PVC	0.010	--	--	--
P-5	Alluvium	10/17/1995	10970.88	10331.39	696.81	693.7	2.80	7.0	2.0	7.0	4.8	9.8	691.7	686.7	5.0	2	PVC	0.010	--	--	--
P-6 (Abnd)	Alluvium	10/19/1995	10138.12	10328.77	693.33	691.2	2.16	7.0	3.0	7.0	5.2	9.2	688.2	684.2	4.0	2	PVC	0.010	--	--	--
P-7 (Abnd)	Alluvium	10/18/1995	--	--	--	--	--	6.0	2.5	6.0	--	--	--	--	3.5	2	PVC	0.010	--	--	--
P-8 (Abnd)	Alluvium	10/18/1995	--	--	--	--	--	13.0	8.0	13.0	--	--	--	--	5.0	2	PVC	0.010	--	--	--
Recovery Wells																					
RW-1	URC, LRC, BOR	10/30/2009	1416556.06	3108624.43	692.10	689.0	3.09	44.00	6.5	40.0	9.6	43.1	682.5	649.0	33.5	6	Open Hole	--	4.0	1.85	SL
RW-2	URC, LRC, BOR	11/12/2009	1416168.83	3108679.75	688.19	685.2	2.98	42.5	5.0	38.5	8.0	41.5	680.2	646.7	33.5	6	Open Hole	--	4.0	18.95	SL
RW-3	URC, LRC, BOR	11/11/2009	1416216.95	3108693.99	688.83	685.5	3.32	42.5	8.5	38.5	11.8	41.8	677.0	647.0	30	4	PVC/SS	0.010	4.0	8.2	SL
RW-4	URC, LRC, BOR	11/17/2009	1416182.91	3108778.04	691.04	687.9	3.11	42.75	15.0	38.75	18.1	41.9	672.9	649.2	23.8	6	Open Hole	--	4.0	0.23	SL
RW-5	URC, LRC, BOR	11/16/2009	1416212.68	3108803.65	692.19	688.7	3.54	43.5	19.5	39.5	23.0	43.0	669.2	649.2	20	4	PVC/SS	0.010	4.0	0.0063	SL
RW-6	URC, LRC, BOR	4/7/2010	1416155.98	3108805.9	689.70	687.1	2.65	40	16.5	36.0	19.2	38.7	670.6	651.1	19.5	6	Open Hole	--	4.0	1.95	SL
RW-7	URC, LRC, BOR	11/10/2010	1416159.32	3108412.76	691.70	689.0	2.70	48.5	10.5	44.5	13.2	47.2	678.5	644.5	34.0	6	Open Hole	--	4.0	--	--
RW-8	URC, LRC, BOR	4/19/2012	1415539.91	3108239.91	687.98	685.4	2.55	48.5	9.5	44.5	12.1	47.1	675.9	640.9	35.0	6/4	Open Hole/SS	0.010	4.0	--	--
RW-9	URC, LRC, BOR	10/17/2012	1415481.09	3108227.02	688.59	686.55	2.04	51.25	10.00	47.25	12.04	49.29	676.55	639.30	37.25	6/4	Open Hole/SS	0.010	4.0	--	--
RW-10	URC, LRC, BOR	10/19/2012	1415647.01	3108230.56	689.86	687.82	2.04	56.00	15.00	52.00	17.04	54.04	672.82	635.82	37.00	6/4	Open Hole/SS	0.010	4.0	--	--
RW-11	URC, LRC, BOR	10/22/2012	1415716.91	3108250.08	690.67	688.7	1.97	54.00	15.00	50.00	16.97	51.97	673.70	638.70	35.0	6/4	Open Hole/SS	0.010	4.0	--	--
RW-12	URC, LRC, BOR	5/23/2013	1415584.39	3108237.86	688.92	686.82	2.10	55.00	11.00	45.00	13.10	47.10	675.82	641.82	34.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-13	URC, LRC, BOR	5/30/2013	1415442.78	3108193.37	688.57	686.52	2.05	58.00	11.00	48.00	13.05	50.05	675.52	638.52	37.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-14	URC, LRC, BOR	5/31/2013	1415510.24	3108236.14	688.29	686.15	2.14	56.00	11.00	46.00	13.14	48.14	675.15	640.15	35.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-15	URC, LRC, BOR	6/4/2013	1415929.95	3108295.67	690.74	689.16	1.58	55.50	11.00	45.50	12.58	47.08	678.16	643.66	34.50	8/6	Open Hole/SS	0.010	10.0	--	--
RW-16	URC, LRC, BOR	6/7/2013	1416219.21	3108824.97	689.42	688.47	0.95	49.00	11.00	39.00	11.95	39.95	677.47	649.47	28.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-17 (MW-27A)	URC, LRC, BOR	6/10/2013	1416166.19	3108774.82	690.37	688.60	1.77	49.00	11.00	39.00	12.77	40.77	677.60	649.60	28.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-18	URC, LRC, BOR	6/11/2013	1415744.41	3108601.06	687.23	685.48	1.75	51.00	11.00	41.00	12.75	42.75	674.48	644.48	30.00	8/6	Open Hole/SS	0.010	10.0	--	--
RW-19	URC, LRC, BOR	10/22/2015	1416315.42	3108841.68	NM	689.86	NM	52.00	10.00	42.00	~13.00	~45.00	679.9	647.9	~32.00	8/6	Open Hole/SS	0.010	10.0	--	--
Pilot Holes																					
PH-1 (Abnd)	URC, LRC, BOR	5/1/2013	1416103.02	3018306.85	0.00	691.41	0.00	50.47	11.00	50.47	11.00	50.47	680.4	640.9	39.47	4	Open Hole	--	0.0	--	--
PH-3 (Abnd)	URC, LRC, BOR	5/3/2013	1415787.31	3108267.38	0.00	688.72	0.00	46.30	11.00	46.30	11.00	46.30	677.7	642.4	35.30	4	Open Hole	--	0.0	--	--
PH-9 (Abnd)	URC, LRC, BOR	5/13/2013	1416116.78	3108775.11	0.00	687.66	0.00	41.33	11.00	41.33	11.00	41.33	676.7	646.3	30.33	4	Open Hole	--	0.0	--	--
PH-11 (Abnd)	URC, LRC, BOR	5/16/2013	1415670.04	3108589.39	0.00	694.06	0.00	40.93	11.00	40.93	11.00	40.93	683.1	653.1	29.93	4	Open Hole	--	0.00	--	--

Notes: **Spreadsheet updated on 1/29/18 RW**
Elevations given in feet above Mean Sea Level (ft. AMSL), relative to the North American Vertical Datum of 1988 (NAVD88).
Coordinates referenced to the Indiana State Plane West (1302) grid; except decommissioned wells, which are referenced to the 1929 National Geodetic Vertical Datum (NGVD).
Coordinates and elevations for all wells surveyed by Cripe Architects and Engineers, Indianapolis, IN.
Abnd = well has been decommissioned.
SS = stainless steel. PVC = polyvinyl chloride.
ags = above ground surface.
ft/day = feet per day
TOC = top of well casing.
URC = Upper Ramp Creek LRC = Lower Ramp Creek BOR = Borden
SL = slug test average (slug in and slug out) RE = draw-down/recovery test ST = short duration step/draw-down test

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-1S	11/17/1994	700.84	8.03	12.65	692.81
	11/14/1995	700.84	7.84	12.65	693.00
	4/30/1996	700.84	4.71	12.65	696.13
	5/18/2000	700.84	9.37	12.65	691.47
	8/4/2000	700.84	9.12	12.65	691.72
	11/13/2000	700.84	7.44	12.65	693.40
	2/1/2001	700.84	6.77	12.65	694.07
	6/21/2001	700.84	9.45	12.65	691.39
	12/11/2001	700.84	7.98	12.65	692.86
	8/11/2003	700.84	9.62	12.65	691.22
	10/29/2003	700.84	8.66	12.65	692.18
	2/18/2004	700.84	7.44	12.65	693.40
	9/9/2004	700.84	9.29	12.65	691.55
	7/31/2006	700.84	9.46	12.65	691.38
	7/24/2007	700.84	9.30	12.67	691.54
	11/30/2007	700.84	8.78	NM	692.06
	6/8/2008	700.84	5.69	NM	695.15
	9/9/2008	700.84	8.28	NM	692.56
	11/17/2008	700.84	7.91	NM	692.93
	2/5/2009	700.84	9.46	NM	691.38
	12/9/2009	700.84	4.96	NM	695.88
	6/15/2010	700.84	4.41	NM	696.43
	9/20/2010	700.84	10.76	NM	690.08
	12/13/2010	700.84	7.00	NM	693.84
	3/7/2011	700.84	4.45	NM	696.39
	6/21/2011	700.84	7.71	NM	693.13
	9/26/2011	700.84	6.62	NM	694.22
	11/1/2011	700.84	8.66	12.53	692.18
	12/9/2011	Well Decommissioned			

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-1D	11/17/1994	700.07	7.76	20.20	692.31
	11/14/1995	700.07	7.87	20.20	692.20
	4/30/1996	700.07	4.71	20.20	695.36
	5/18/2000	700.07	8.72	20.20	691.35
	8/4/2000	700.07	8.52	20.20	691.55
	11/13/2000	700.07	7.33	20.20	692.74
	2/1/2001	700.07	6.68	20.20	693.39
	6/21/2001	700.07	8.85	20.20	691.22
	12/11/2001	700.07	8.00	20.20	692.07
	8/11/2003	700.07	9.14	20.20	690.93
	10/29/2003	700.07	8.54	20.20	691.53
	2/18/2004	700.07	7.68	20.20	692.39
	9/9/2004	700.07	9.55	20.20	690.52
	7/31/2006	700.07	9.83	20.20	690.24
	7/24/2007	700.07	9.37	20.20	690.70
	11/30/2007	700.07	8.94	NM	691.13
	6/8/2008	700.07	6.19	NM	693.88
	9/9/2008	700.07	9.93	NM	690.14
	11/17/2008	700.07	8.57	NM	691.50
	2/5/2009	700.07	9.07	NM	691.00
	12/9/2009	700.07	8.18	NM	691.89
	1/14/2010	700.07	8.81	NM	691.26
	6/15/2010	700.07	6.45	NM	693.62
	9/20/2010	700.07	10.36	NM	689.71
	12/13/2010	700.07	8.46	NM	691.61
	3/7/2011	700.07	5.55	NM	694.52
	6/21/2011	700.07	8.39	NM	691.68
	9/26/2011	700.07	8.71	NM	691.36
	11/1/2011	700.07	8.91	20.09	691.16
	12/12/2011	700.07	8.39	NM	691.68
	4/2/2012	700.07	8.57	NM	691.50
	7/9/2012	700.07	10.00	NM	690.07
	10/1/2012	700.07	8.93	NM	691.14
	7/13/2015	700.07	6.72	NM	693.35
	3/12/2018	700.07	6.22	NM	693.85

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-2S	11/17/1994	696.04	7.50	9.16	688.54
	11/14/1995	696.04	7.67	9.16	688.37
	4/30/1996	696.04	6.21	9.16	689.83
	5/1/2000	696.04	8.41	9.16	687.63
	8/14/2000	696.04	7.78	9.16	688.26
	11/13/2000	696.04	7.63	9.16	688.41
	2/1/2002	696.04	7.08	9.16	688.96
	6/21/2001	696.04	8.82	9.16	687.22
	12/11/2001	696.04	7.95	9.16	688.09
	8/11/2003	696.04	8.94	9.16	687.10
	10/29/2003	696.04	7.67	9.16	688.37
	2/18/2004	696.04	7.57	9.16	688.47
	9/9/2004	696.04	8.90	9.16	687.14
	7/31/2006	696.04	9.02	9.16	687.02
	7/24/2007	696.04	8.73	9.18	687.31
	11/30/2007	696.04	8.03	NM	688.01
	6/8/2008	696.04	7.41	NM	688.63
	9/9/2008	696.04	9.20	NM	686.84
	11/17/2008	696.04	8.10	NM	687.94
	2/5/2009	696.04	7.98	NM	688.06
	2/25/2009	696.04	7.73	NM	688.31
	3/3/2009	696.04	7.72	NM	688.32
	3/11/2009	696.04	7.84	NM	688.20
	3/17/2009	696.04	6.52	NM	689.52
	3/25/2009	696.04	7.36	NM	688.68
	3/31/2009	696.04	7.51	NM	688.53
	4/20/2009	696.04	7.67	NM	688.37
	4/29/2009	696.04	7.93	NM	688.11
	5/6/2009	696.04	8.07	NM	687.97
	5/11/2009	696.04	7.98	NM	688.06
	5/20/2009	696.04	7.74	NM	688.30
	5/27/2009	696.04	8.32	NM	687.72
	6/8/2009	696.04	8.75	NM	687.29
	6/15/2009	696.04	7.84	NM	688.20
	6/25/2009	696.04	7.37	NM	688.67
	6/30/2009	696.04	7.86	NM	688.18
	7/31/2009	696.04	8.48	NM	687.56
	8/13/2009	696.04	8.55	NM	687.49
	8/26/2009	696.04	9.15	NM	686.89
	10/2/2009	696.04	7.59	NM	688.45
	10/6/2009	696.04	8.30	NM	687.74
	12/9/2009	696.04	6.86	NM	689.18
	12/18/2009	696.04	7.14	NM	688.90
	1/26/2010	696.04	6.67	NM	689.37
	2/3/2010	696.04	7.70	NM	688.34
	3/1/2010	696.04	7.43	NM	688.61
	6/15/2010	696.04	6.17	NM	689.87
	9/20/2010	696.04	9.25	9.25	686.79
	12/13/2010	696.04	7.33	NM	688.71
	2/18/2011	696.04	7.61	NM	688.43
	3/7/2011	696.04	6.09	NM	689.95
	6/21/2011	696.04	7.39	NM	688.65
	9/26/2011	696.04	8.54	NM	687.50
	11/29/2011	696.04	5.48	NM	690.56
	12/9/2011	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-2D	11/17/1994	694.34	5.82	14.34	688.52
	11/14/1995	694.34	5.80	14.34	688.54
	4/30/1996	694.34	4.95	14.34	689.39
	5/1/2000	694.34	6.79	14.34	687.55
	8/14/2000	694.34	6.53	14.34	687.81
	11/13/2000	694.34	5.77	14.34	688.57
	2/1/2001	694.34	5.71	14.34	688.63
	6/21/2001	694.34	7.05	14.34	687.29
	12/11/2001	694.34	6.20	14.34	688.14
	8/11/2003	694.34	7.19	14.34	687.15
	10/29/2003	694.34	6.17	14.34	688.17
	2/18/2004	694.34	6.26	14.34	688.08
	9/9/2004	694.34	7.19	14.34	687.15
	7/31/2006	694.34	7.10	14.34	687.24
	7/24/2007	694.34	7.00	17.45	687.34
	11/30/2007	694.34	6.37	NM	687.97
	6/8/2008	694.34	5.70	NM	688.64
	9/9/2008	694.34	7.63	NM	686.71
	11/17/2008	694.34	6.81	NM	687.53
	2/5/2009	694.34	6.76	NM	687.58
	2/25/2009	694.34	6.23	NM	688.11
	3/3/2009	694.34	6.71	NM	687.63
	3/11/2009	694.34	6.30	NM	688.04
	3/17/2009	694.34	8.07	NM	686.27
	3/25/2009	694.34	5.87	NM	688.47
	3/31/2009	694.34	6.02	NM	688.32
	4/20/2009	694.34	6.04	NM	688.30
	4/29/2009	694.34	6.35	NM	687.99
	5/6/2009	694.34	6.48	NM	687.86
	5/11/2009	694.34	6.48	NM	687.86
	5/20/2009	694.34	6.19	NM	688.15
	5/27/2009	694.34	6.74	NM	687.60
	6/8/2009	694.34	7.10	NM	687.24
	6/15/2009	694.34	5.49	NM	688.85
	6/25/2009	694.34	5.99	NM	688.35
	6/30/2009	694.34	6.95	NM	687.39
	7/31/2009	694.34	6.66	NM	687.68
	8/13/2009	694.34	6.73	NM	687.61
	8/26/2009	694.34	7.38	NM	686.96
	10/2/2009	694.34	6.42	NM	687.92
	10/6/2009	694.34	6.53	NM	687.81
	12/9/2009	694.34	5.71	NM	688.63
	12/18/2009	694.34	5.92	NM	688.42
	1/14/2010	694.34	6.70	NM	687.64
	1/26/2010	694.34	5.52	NM	688.82
	2/3/2010	694.34	6.45	NM	687.89
	3/2/2010	694.34	6.25	NM	688.09
	6/15/2010	694.34	5.13	NM	689.21
	8/30/2010	694.34	7.74	NM	686.60
	9/20/2010	694.34	7.38	NM	686.96
	12/13/2010	694.34	6.14	NM	688.20
	2/18/2011	694.34	6.58	NM	687.76
	3/7/2011	694.34	4.78	NM	689.56
	6/21/2011	694.34	6.13	NM	688.21
	9/26/2011	694.34	6.48	NM	687.86
	11/29/2011	694.34	4.52	NM	689.82
	12/9/2011	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-3S	11/17/1994	692.89	5.94	10.15	686.95
	11/14/1995	692.89	4.25	10.15	688.64
	4/30/1996	692.89	3.56	10.15	689.33
	5/18/2000	692.89	4.16	10.15	688.73
	8/14/2000	692.89	4.11	10.15	688.78
	11/13/2000	692.89	3.45	10.15	689.44
	2/1/2001	692.89	3.52	10.15	689.37
	6/21/2001	692.89	4.84	10.15	688.05
	12/11/2001	692.89	4.01	10.15	688.88
	8/11/2003	692.89	5.43	10.15	687.46
	10/29/2003	692.89	4.04	10.15	688.85
	2/18/2004	692.89	3.56	10.15	689.33
	9/9/2004	692.89	5.73	10.15	687.16
	7/31/2006	692.89	5.51	10.15	687.38
	8/15/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-3D	11/17/1994	691.65	4.15	17.00	687.50
	11/14/1995	691.65	4.30	17.00	687.35
	4/30/1996	691.65	3.07	17.00	688.58
	5/18/2000	691.65	3.75	17.00	687.90
	8/14/2000	691.65	3.89	17.00	687.76
	11/13/2000	691.65	3.54	17.00	688.11
	2/1/2001	691.65	3.33	17.00	688.32
	6/21/2001	691.65	3.95	17.00	687.70
	12/11/2001	691.65	3.90	17.00	687.75
	8/11/2003	691.65	4.55	17.00	687.10
	10/29/2003	691.65	3.63	17.00	688.02
	2/18/2004	691.65	3.66	17.00	687.99
	9/9/2004	691.65	5.60	17.00	686.05
	7/31/2006	691.65	4.34	17.00	687.31
	8/15/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-4S	11/17/1994	690.8	7.81	10.35	682.99
	11/14/1995	690.8	8.24	10.35	682.56
	4/30/1996	690.8	5.03	10.35	685.77
	8/11/2003	690.8	8.54	10.35	682.26
	10/29/2003	690.8	7.73	10.35	683.07
	2/18/2004	690.8	7.63	10.35	683.17
	9/9/2004	690.8	8.75	10.35	682.05
	7/31/2006	690.8	8.79	10.35	682.01
	7/24/2007	690.8	Obstruction	NM	NM
	11/30/2007	690.8	NM	NM	NM
	6/8/2008	690.8	NM	NM	NM
	9/9/2008	690.8	NM	NM	NM
	11/17/2008	690.8	NM	NM	NM
	2/5/2009	690.8	NM	NM	NM
	3/3/2009	690.8	NM	NM	NM
	12/9/2009	690.8	NM	NM	NM
	6/15/2010	690.8	NM	NM	NM
	9/20/2010	690.8	NM	NM	NM
	12/13/2010	690.8	NM	NM	NM
	3/7/2011	690.8	NM	NM	NM
	6/21/2011	690.8	NM	NM	NM
	9/26/2011	690.8	NM	NM	NM
	12/9/2011		Well Decommissioned		

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-4D	11/17/1994	690.3	6.61	19.10	683.69
	11/14/1995	690.3	7.16	19.10	683.14
	4/30/1996	690.3	4.65	19.10	685.65
	8/11/2003	690.3	7.25	19.10	683.05
	10/29/2003	690.3	6.64	19.10	683.66
	2/18/2004	690.3	6.43	19.10	683.87
	9/9/2004	690.3	7.45	19.10	682.85
	7/31/2006	690.3	7.43	19.10	682.87
	7/24/2007	690.3	7.68	19.10	682.62
	11/30/2007	690.3	7.67	NM	682.63
	6/8/2008	690.3	5.83	NM	684.47
	9/9/2008	690.3	NM	NM	NM
	11/17/2008	690.3	7.65	NM	682.65
	2/5/2009	690.3	7.78	NM	682.52
	2/25/2009	690.3	6.79	NM	683.51
	3/3/2009	690.3	6.90	NM	683.40
	3/11/2009	690.3	7.35	NM	682.95
	3/17/2009	690.3	7.54	NM	682.76
	3/25/2009	690.3	7.52	NM	682.78
	3/31/2009	690.3	6.74	NM	683.56
	4/20/2009	690.3	6.44	NM	683.86
	4/29/2009	690.3	6.93	NM	683.37
	5/6/2009	690.3	6.50	NM	683.80
	5/11/2009	690.3	6.72	NM	683.58
	5/20/2009	690.3	6.16	NM	684.14
	5/27/2009	690.3	6.93	NM	683.37
	6/8/2009	690.3	7.29	NM	683.01
	6/15/2009	690.3	6.53	NM	683.77
	6/25/2009	690.3	5.87	NM	684.43
	6/30/2009	690.3	7.05	NM	683.25
	7/31/2009	690.3	7.12	NM	683.18
	8/13/2009	690.3	7.37	NM	682.93
	10/2/2009	690.3	7.76	NM	682.54
	10/6/2009	690.3	7.72	NM	682.58
	12/9/2009	690.3	7.00	NM	683.30
	12/18/2009	690.3	6.79	NM	683.51
	1/26/2010	690.3	6.63	NM	683.67
	2/3/2010	690.3	7.28	NM	683.02
	3/1/2010	690.3	7.11	NM	683.19
	6/15/2010	690.3	5.69	NM	684.61
	9/20/2010	690.3	9.12	NM	681.18
	12/13/2010	690.3	7.45	NM	682.85
	3/7/2011	690.3	Obstruction	NM	NM
	6/21/2011	690.3	NM	NM	NM
	9/26/2011	690.3	NM	NM	NM
	12/9/2011		Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-5S	11/17/1994	690.67	9.01	12.25	681.66
	11/14/1995	690.67	8.97	12.25	681.70
	4/30/1996	690.67	6.40	12.25	684.27
	8/11/2003	690.67	8.95	12.25	681.72
	10/29/2003	690.67	8.84	12.25	681.83
	2/18/2004	690.67	8.62	12.25	682.05
	9/9/2004	690.67	9.13	12.25	681.54
	7/31/2006	690.67	9.39	12.25	681.28
	7/24/2007	690.67	9.31	12.23	681.36
	11/30/2007	690.67	9.20	12.23	681.47
	6/8/2008	690.67	8.35	12.23	682.32
	9/9/2008	690.67	NM	NM	NA
	11/17/2008	690.67	8.88	12.23	681.79
	2/5/2009	690.67	9.12	NM	681.55
	12/9/2009	690.67	8.10	NM	682.57
	1/15/2010	690.67	8.86	NM	681.81
	6/15/2010	690.67	8.16	NM	682.51
	9/20/2010	690.67	9.25	NM	681.42
	12/13/2010	690.67	8.81	NM	681.86
	3/7/2011	690.67	8.10	NM	682.57
	6/21/2011	690.67	8.79	NM	681.88
	9/26/2011	690.67	8.49	NM	682.18
	12/12/2011	690.67	8.78	NM	681.89
	4/2/2012	690.67	8.95	NM	681.72
	7/9/2012	690.67	9.21	NM	681.46
	10/1/2012	690.67	9.07	NM	681.60
	7/13/2015	690.67	7.87	NM	682.80
	3/12/2018	690.67	9.13	NM	681.54

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-5D	11/17/1994	690.35	8.51	22.75	681.84
	11/14/1995	690.35	8.50	22.75	681.85
	4/30/1996	690.35	5.66	22.75	684.69
	8/11/2003	690.35	8.62	22.75	681.73
	10/29/2003	690.35	8.40	22.75	681.95
	2/18/2004	690.35	8.18	22.75	682.17
	9/9/2004	690.35	8.75	22.75	681.60
	7/31/2006	690.35	9.04	22.75	681.31
	7/24/2007	690.35	8.91	22.74	681.44
	11/30/2007	690.35	8.88	NM	681.47
	6/8/2008	690.35	7.86	NM	682.49
	9/9/2008	690.35	NM	NM	NA
	11/17/2008	690.35	8.45	NM	681.90
	2/5/2009	690.35	8.80	NM	681.55
	12/9/2009	690.35	7.78	NM	682.57
	1/13/2010	690.35	8.68	NM	681.67
	6/15/2010	690.35	7.73	NM	682.62
	9/20/2010	690.35	8.93	NM	681.42
	12/13/2010	690.35	8.41	NM	681.94
	3/7/2011	690.35	7.56	NM	682.79
	6/21/2011	690.35	8.39	NM	681.96
	9/26/2011	690.35	8.13	NM	682.22
	12/12/2011	690.35	8.39	NM	681.96
	4/2/2012	690.35	8.55	NM	681.80
	7/9/2012	690.35	8.97	NM	681.38
	10/1/2012	690.35	8.72	NM	681.63
	7/13/2015	690.35	7.38	NM	682.97
	3/12/2018	690.35	8.90	NM	681.45

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-6S	11/17/1994	691.37	9.80	9.80	681.57
	11/14/1995	691.37	9.54	9.80	681.83
	4/30/1996	691.37	3.99	9.80	687.38
	8/11/2003	691.37	9.65	9.80	681.72
	10/29/2003	691.37	9.50	9.80	681.87
	2/18/2004	691.37	9.06	9.80	682.31
	9/9/2004	691.37	9.65	9.80	681.72
	7/31/2006	691.37	9.58	9.80	681.79
	7/24/2007	691.37	9.59	9.86	681.78
	11/30/2007	691.37	9.66	NM	681.71
	6/8/2008	691.37	8.03	NM	683.34
	9/9/2008	691.37	NM	NM	NM
	11/17/2008	691.37	9.59	NM	681.78
	2/5/2009	691.37	9.68	NM	681.69
	12/9/2009	691.37	8.15	NM	683.22
	6/15/2010	691.37	7.39	NM	683.98
	9/20/2010	691.37	9.70	NM	681.67
	12/13/2010	691.37	9.57	NM	681.80
	3/7/2011	691.37	7.20	NM	684.17
	6/21/2011	691.37	9.43	NM	681.94
	9/26/2011	691.37	9.02	NM	682.35
	12/12/2011	691.37	9.26	NM	682.11
	4/2/2012	691.37	9.65	NM	681.72
	7/9/2012	691.37	Dry	9.86	NA
	10/1/2012	691.37	9.64	NM	681.73
	7/13/2015	691.37	6.08	NM	685.29
	3/12/2018	691.37	9.65	NM	681.72

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-6D	11/17/1994	690.54	9.03	17.89	681.51
	11/14/1995	690.54	8.91	17.89	681.63
	4/30/1996	690.54	3.02	17.89	687.52
	8/11/2003	690.54	9.19	17.89	681.35
	10/29/2003	690.54	8.81	17.89	681.73
	2/18/2004	690.54	8.26	17.89	682.28
	9/9/2004	690.54	9.55	17.89	680.99
	7/31/2006	690.54	9.61	17.89	680.93
	7/24/2007	690.54	9.59	18.88	680.95
	11/30/2007	690.54	9.51	18.88	681.03
	6/8/2008	690.54	7.25	18.88	683.29
	9/9/2008	690.54	NM	NM	NA
	11/17/2008	690.54	8.95	18.88	681.59
	2/5/2009	690.54	9.34	NM	681.20
	12/9/2009	690.54	7.35	NM	683.19
	6/15/2010	690.54	6.65	NM	683.89
	9/20/2010	690.54	9.76	NM	680.78
	12/13/2010	690.54	8.80	NM	681.74
	3/7/2011	690.54	6.40	NM	684.14
	6/21/2011	690.54	8.60	NM	681.94
	9/26/2011	690.54	8.17	NM	682.37
	12/12/2011	690.54	8.44	NM	682.10
	4/2/2012	690.54	8.89	NM	681.65
	7/9/2012	690.54	9.63	NM	680.91
	10/1/2012	690.54	9.23	NM	681.31
	7/13/2015	690.54	5.25	NM	685.29
	3/12/2018	690.54	10.20	NM	680.34

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-7S	11/17/1994	696.93	6.05	13.34	690.88
	11/14/1995	696.93	4.38	13.34	692.55
	4/30/1996	696.93	2.85	13.34	694.08
	5/18/2000	696.93	8.07	13.34	688.86
	8/14/2000	696.93	7.39	13.34	689.54
	11/13/2000	696.93	4.66	13.34	692.27
	2/1/2001	696.93	3.34	13.34	693.59
	6/21/2001	696.93	7.45	13.34	689.48
	12/11/2001	696.93	6.18	13.34	690.75
	8/11/2003	696.93	8.70	13.34	688.23
	10/29/2003	696.93	7.43	13.34	689.50
	2/18/2004	696.93	4.58	13.34	692.35
	9/9/2004	696.93	9.07	13.34	687.86
	7/31/2006	696.93	9.56	13.34	687.37
	8/15/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-7D	11/17/1994	696.71	5.64	23.05	691.07
	11/14/1995	696.71	4.66	23.05	692.05
	4/30/1996	696.71	2.86	23.05	693.85
	5/18/2000	696.71	7.56	23.05	689.15
	8/14/2000	696.71	7.21	23.05	689.50
	11/13/2000	696.71	4.42	23.05	692.29
	2/1/2001	696.71	3.40	23.05	693.31
	6/21/2001	696.71	7.35	23.05	689.36
	12/11/2001	696.71	5.75	23.05	690.96
	8/11/2003	696.71	8.08	23.05	688.63
	10/29/2003	696.71	7.14	23.05	689.57
	2/18/2004	696.71	4.05	23.05	692.66
	9/9/2004	696.71	8.65	23.05	688.06
	7/31/2006	696.71	9.17	23.05	687.54
	8/15/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-8S	11/14/1995	691.66	6.76	8.85	684.90
	4/30/1996	691.66	4.66	8.85	687.00
	6/21/2001	691.66	7.24	8.85	684.42
	12/11/2001	691.66	6.82	8.85	684.84
	8/11/2003	691.66	7.45	8.85	684.21
	10/29/2003	691.66	6.78	8.85	684.88
	2/18/2004	691.66	6.22	8.85	685.44
	9/9/2004	691.66	7.47	8.85	684.19
	7/31/2006	691.66	7.54	8.85	684.12
	7/24/2007	691.66	7.54	8.88	684.12
	11/30/2007	691.66	7.62	NM	684.04
	6/8/2008	691.66	5.82	NM	685.84
	9/9/2008	691.66	NM	NM	NM
	11/17/2008	691.66	7.26	NM	684.40
	2/5/2009	691.66	7.39	NM	684.27
	12/9/2009	691.66	6.62	NM	685.04
	6/15/2010	691.66	5.10	NM	686.56
	9/20/2010	691.66	8.70	NM	682.96
	12/13/2010	691.66	6.99	NM	684.67
	3/7/2011	691.66	4.81	NM	686.85
	6/21/2011	691.66	6.76	NM	684.90
	9/26/2011	691.66	6.14	NM	685.52
	12/12/2011	691.66	6.29	NM	685.37
	4/2/2012	691.66	7.33	NM	684.33
	7/9/2012	691.66	8.60	NM	683.06
	10/1/2012	691.66	7.34	NM	684.32
	7/13/2015	691.66	4.83	NM	686.83
	3/12/2018	691.66	7.02	NM	684.64

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-8D	11/14/1995	690.63	6.80	15.30	683.83
	4/30/1996	690.63	3.69	15.30	686.94
	6/21/2001	690.63	6.62	15.30	684.01
	12/11/2001	690.63	11.00	15.30	679.63
	8/11/2003	690.63	6.30	15.30	684.33
	10/29/2003	690.63	6.11	15.30	684.52
	2/18/2004	690.63	5.48	15.30	685.15
	9/9/2004	690.63	6.80	15.30	683.83
	7/31/2006	690.63	10.32	15.30	680.31
	7/24/2007	690.63	6.86	15.30	683.77
	11/30/2007	690.63	6.34	NM	684.29
	6/8/2008	690.63	4.50	NM	686.13
	9/9/2008	690.63	NM	NM	NA
	11/17/2008	690.63	6.67	NM	683.96
	2/5/2009	690.63	6.73	NM	683.90
	12/9/2009	690.63	6.33	NM	684.30
	6/15/2010	690.63	5.23	NM	685.40
	9/20/2010	690.63	8.04	NM	682.59
	12/13/2010	690.63	6.63	NM	684.00
	3/7/2011	690.63	4.26	NM	686.37
	6/21/2011	690.63	5.98	NM	684.65
	9/26/2011	690.63	7.38	NM	683.25
	12/12/2011	690.63	5.49	NM	685.14
	4/2/2012	690.63	6.65	NM	683.98
	7/9/2012	690.63	7.96	NM	682.67
	10/1/2012	690.63	6.67	NM	683.96
	7/13/2015	690.63	4.46	NM	686.17
	3/12/2018	690.63	6.82	NM	683.81

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-9	11/13/2000	701.33	8.60	11.25	692.73
	2/1/2001	701.33	7.07	11.25	694.26
	6/21/2001	701.33	10.20	11.25	691.13
	12/11/2001	701.33	9.23	11.25	692.10
	8/11/2003	701.33	10.39	11.25	690.94
	10/29/2003	701.33	9.29	11.25	692.04
	2/18/2004	701.33	9.10	11.25	692.23
	9/9/2004	701.33	10.52	11.25	690.81
	7/31/2006	701.33	10.62	11.25	690.71
	7/24/2007	701.33	10.29	11.26	691.04
	11/30/2007	701.33	9.98	NM	691.35
	6/8/2008	701.33	6.38	NM	694.95
	9/9/2008	701.33	11.00	NM	690.33
	11/17/2008	701.33	9.39	NM	691.94
	2/5/2009	701.33	10.41	NM	690.92
	12/9/2009	701.33	9.56	NM	691.77
	6/15/2010	701.33	6.21	NM	695.12
	9/20/2010	701.33	10.99	NM	690.34
	12/13/2010	701.33	9.60	NM	691.73
	3/7/2011	701.33	6.10	NM	695.23
	6/21/2011	701.33	9.74	NM	691.59
	9/26/2011	701.33	9.30	NM	692.03
	11/1/2011	701.33	10.36	11.11	690.97
	12/12/2011	701.33	9.41	11.11	691.92
	4/2/2012	701.33	10.07	11.11	691.26
	7/9/2012	701.33	11.02	11.11	690.31
	10/1/2012	701.33	10.34	NM	690.99
	7/13/2015	701.33	7.96	NM	693.37
	3/12/2018	701.33	8.95	NM	692.38

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-10	11/13/2000	699.66	5.55	10.88	694.11
	2/1/2001	699.66	6.00	10.88	693.66
	6/21/2001	699.66	8.54	10.88	691.12
	12/11/2001	699.66	5.65	10.88	694.01
	8/11/2003	699.66	8.88	10.88	690.78
	10/29/2003	699.66	7.00	10.88	692.66
	2/18/2004	699.66	5.83	10.88	693.83
	9/9/2004	699.66	9.14	10.88	690.52
	7/31/2006	699.66	9.64	10.88	690.02
	7/24/2007	699.66	9.38	10.87	690.28
	11/30/2007	699.66	7.72	10.87	691.94
	6/8/2008	699.66	5.51	10.87	694.15
	9/9/2008	699.66	9.85	10.87	689.81
	11/17/2008	699.66	7.62	10.87	692.04
	2/5/2009	699.66	8.34	NM	691.32
	12/9/2009	699.66	6.34	NM	693.32
	6/15/2010	699.66	5.55	NM	694.11
	9/20/2010	699.66	10.06	NM	689.60
	12/13/2010	699.66	7.00	NM	692.66
	3/7/2011	699.66	5.21	NM	694.45
	6/21/2011	699.66	6.99	NM	692.67
	9/26/2011	699.66	9.60	NM	690.06
	11/1/2011	699.66	7.78	10.73	691.88
	12/12/2011	699.66	6.24	10.73	693.42
	4/2/2012	699.66	6.76	10.73	692.90
	7/9/2012	699.66	9.74	10.73	689.92
	10/1/2012	699.66	7.95	NM	691.71
	7/13/2015	699.66	5.83	NM	693.83
	3/12/2018	699.66	6.06	NM	693.60

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-11S	2/5/2009	700.06	Dry	NM	NA
	12/9/2009	700.06	Dry	NM	NA
	6/15/2010	700.06	Dry	NM	NA
	6/21/2011	700.06	Dry	NM	NA
	9/26/2011	700.06	Dry	NM	NA
	12/9/2011		Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-11D	6/21/2001	699.75	9.61	22.03	690.14
	12/11/2001	699.75	9.11	22.03	690.64
	8/11/2003	699.75	10.23	22.03	689.52
	10/29/2003	699.75	9.41	22.03	690.34
	2/18/2004	699.75	9.27	22.03	690.48
	9/9/2004	699.75	10.27	22.03	689.48
	7/31/2006	699.75	10.29	22.03	689.46
	7/24/2007	699.75	10.32	21.92	689.43
	11/30/2007	699.75	9.85	NM	689.90
	6/8/2008	699.75	8.63	NM	691.12
	9/9/2008	699.75	10.12	NM	689.63
	11/17/2008	699.75	9.69	NM	690.06
	2/5/2009	699.75	9.78	NM	689.97
	12/9/2009	699.75	9.01	NM	690.74
	6/15/2010	699.75	8.27	NM	691.48
	9/20/2010	699.75	10.05	NM	689.70
	12/13/2010	699.75	9.55	NM	690.20
	3/7/2011	699.75	7.96	NM	691.79
	6/21/2011	699.75	9.34	NM	690.41
	9/26/2011	699.75	9.21	NM	690.54
	12/12/2011	699.75	9.12	NM	690.63
	4/2/2012	699.75	9.45	NM	690.30
	7/9/2012	699.75	9.85	NM	689.90
	10/1/2012	699.75	9.62	NM	690.13
	7/13/2015	699.75	8.69	NM	691.06
	3/12/2018	699.75	9.37	NM	690.38

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-12S	11/13/2000	692.76	4.33	8.40	688.43
	2/1/2001	692.76	4.13	8.40	688.63
	6/21/2001	692.76	5.04	8.40	687.72
	12/11/2001	692.76	4.28	8.40	688.48
	8/11/2003	692.76	5.83	8.40	686.93
	10/29/2003	692.76	4.15	8.40	688.61
	2/18/2004	692.76	3.47	8.40	689.29
	9/9/2004	692.76	5.58	8.40	687.18
	7/31/2006	692.76	6.18	8.40	686.58
	7/24/2007	692.76	4.89	9.38	687.87
	11/30/2007	692.76	4.74	9.38	688.02
	6/8/2008	692.76	4.94	9.38	687.82
	9/9/2008	692.76	7.23	9.38	685.53
	11/17/2008	692.76	4.46	9.38	688.30
	2/5/2009	692.76	4.94	NM	687.82
	3/3/2009	692.76	4.31	NM	688.45
	12/9/2009	692.76	3.76	NM	689.00
	6/15/2010	692.76	3.51	NM	689.25
	9/20/2010	692.76	8.10	NM	684.66
	12/13/2010	692.76	4.04	NM	688.72
	3/7/2011	692.76	3.40	NM	689.36
	6/21/2011	692.76	4.27	NM	688.49
	9/26/2011	692.76	4.58	NM	688.18
	12/12/2011	692.76	3.99	NM	688.77
	4/2/2012	692.76	4.20	NM	688.56
	7/9/2012	692.76	8.06	NM	684.70
	10/1/2012	692.76	3.86	NM	688.90
	7/13/2015	692.76	4.16	NM	688.60
	3/12/2018	692.76	3.75	NM	689.01

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-12D	6/21/2001	692.91	5.70	20.12	687.21
	12/11/2001	692.91	5.52	20.12	687.39
	8/11/2003	692.91	6.12	20.12	686.79
	10/29/2003	692.91	5.40	20.12	687.51
	2/18/2004	692.91	5.51	20.12	687.40
	9/9/2004	692.91	6.19	20.12	686.72
	7/31/2006	692.91	5.77	20.12	687.14
	7/24/2007	692.91	6.57	20.15	686.34
	11/30/2007	692.91	6.04	NM	686.87
	6/8/2008	692.91	3.57	NM	689.34
	9/9/2008	692.91	NM	NM	NM
	11/17/2008	692.91	5.85	NM	687.06
	2/5/2009	692.91	NM	NM	NM
	3/3/2009	692.91	5.43	NM	687.48
	3/11/2009	692.91	5.58	NM	687.33
	3/17/2009	692.91	5.96	NM	686.95
	3/25/2009	692.91	4.81	NM	688.10
	3/31/2009	692.91	5.18	NM	687.73
	4/20/2009	692.91	5.13	NM	687.78
	4/29/2009	692.91	5.46	NM	687.45
	5/6/2009	692.91	5.59	NM	687.32
	5/11/2009	692.91	5.53	NM	687.38
	5/20/2009	692.91	5.40	NM	687.51
	5/27/2009	692.91	5.81	NM	687.10
	6/8/2009	692.91	6.26	NM	686.65
	6/15/2009	692.91	5.47	NM	687.44
	6/25/2009	692.91	5.26	NM	687.65
	6/30/2009	692.91	5.93	NM	686.98
	7/31/2009	692.91	5.80	NM	687.11
	8/13/2009	692.91	6.12	NM	686.79
	8/26/2009	692.91	6.68	NM	686.23
	10/2/2009	692.91	5.49	NM	687.42
	10/6/2009	692.91	6.03	NM	686.88
	12/9/2009	692.91	5.22	NM	687.69
	12/18/2009	692.91	5.62	NM	687.29
	1/15/2010	692.91	5.28	NM	687.63
	1/19/2010	692.91	6.00	NM	686.91
	1/26/2010	692.91	5.33	NM	687.58
	2/3/2010	692.91	6.20	NM	686.71
	2/22/2010	692.91	5.38	NM	687.53
	3/1/2010	692.91	5.93	NM	686.98
	3/8/2010	692.91	6.10	NM	686.81
	4/16/2010	692.91	6.03	NM	686.88
	6/1/2010	692.91	6.08	NM	686.83
	6/15/2010	692.91	4.59	NM	688.32
	7/6/2010	692.91	6.56	NM	686.35
	8/3/2010	692.91	6.86	NM	686.05
	8/10/2010	692.91	7.06	NM	685.85
	8/30/2010	692.91	7.21	NM	685.70
	9/20/2010	692.91	7.00	NM	685.91
	12/13/2010	692.91	5.98	NM	686.93
	2/18/2011	692.91	6.20	NM	686.71
	2/22/2011	692.91	4.73	NM	688.18
	3/4/2011	692.91	5.28	NM	687.63
	3/7/2011	692.91	4.93	NM	687.98
	6/21/2011	692.91	5.67	NM	687.24
	9/26/2011	692.91	5.49	NM	687.42
	7/13/2015	692.91	5.02	NM	687.89
	3/12/2018	692.91	5.18	NM	687.73

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-13	11/13/2000	692.47	4.55	9.10	687.92
	2/1/2001	692.47	4.53	9.10	687.94
	6/21/2001	692.47	8.74	9.10	683.73
	12/11/2001	692.47	4.78	9.10	687.69
	8/11/2003	692.47	5.80	9.10	686.67
	10/29/2003	692.47	4.78	9.10	687.69
	2/18/2004	692.47	4.48	9.10	687.99
	9/9/2004	692.47	5.82	9.10	686.65
	7/31/2006	692.47	5.91	9.10	686.56
	7/24/2007	692.47	5.87	9.10	686.60
	11/30/2007	692.47	5.25	NM	687.22
	6/8/2008	692.47	4.27	NM	688.20
	9/9/2008	692.47	NM	NM	NM
	11/17/2008	692.47	4.91	NM	687.56
	2/5/2009	692.47	5.19	NM	687.28
	12/9/2009	692.47	4.32	NM	688.15
	6/15/2010	692.47	4.43	NM	688.04
	9/20/2010	692.47	7.13	NM	685.34
	12/13/2010	692.47	4.87	NM	687.60
	3/7/2011	692.47	4.50	NM	687.97
	6/21/2011	692.47	4.89	NM	687.58
	9/26/2011	692.47	4.59	NM	687.88
	11/29/2011	692.47	3.50	NM	688.97
	12/9/2011	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-14S	8/11/2003	694.15	5.00	8.40	689.15
	10/29/2003	694.15	3.29	8.40	690.86
	2/18/2004	694.15	3.48	8.40	690.67
	9/9/2004	694.15	4.52	8.40	689.63
	7/31/2006	694.15	5.74	8.40	688.41
	7/24/2007	694.15	5.78	8.37	688.37
	11/30/2007	694.15	5.13	NM	689.02
	6/8/2008	694.15	4.02	NM	690.13
	9/9/2008	694.15	7.55	NM	686.60
	11/17/2008	694.15	5.63	NM	688.52
	2/5/2009	694.15	5.05	NM	689.10
	3/3/2009	694.15	4.68	NM	689.47
	12/9/2009	694.15	3.68	NM	690.47
	6/15/2010	694.15	3.69	NM	690.46
	9/20/2010	694.15	8.45	NM	685.70
	3/7/2011	694.15	3.79	NM	690.36
	6/21/2011	694.15	4.49	NM	689.66
	9/26/2011	694.15	6.67	NM	687.48
	11/29/2011	694.15	3.31	NM	690.84
	12/9/2011	Well Decommissioned			

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-14D	8/11/2003	693.8	7.00	20.00	686.80
	10/29/2003	693.8	6.20	20.00	687.60
	2/18/2004	693.8	6.21	20.00	687.59
	9/9/2004	693.8	6.99	20.00	686.81
	7/31/2006	693.8	8.63	20.00	685.17
	7/24/2007	693.8	5.73	20.00	688.07
	11/30/2007	693.8	6.81	NM	686.99
	6/8/2008	693.8	5.51	NM	688.29
	9/9/2008	693.8	NM	NM	NM
	11/17/2008	693.8	6.48	NM	687.32
	2/5/2009	693.8	NM	NM	NM
	3/3/2009	693.8	6.15	NM	687.65
	3/11/2009	693.8	6.02	NM	687.78
	3/17/2009	693.8	6.91	NM	686.89
	3/25/2009	693.8	5.49	NM	688.31
	3/31/2009	693.8	5.75	NM	688.05
	4/20/2009	693.8	5.75	NM	688.05
	4/29/2009	693.8	6.04	NM	687.76
	5/6/2009	693.8	NM	NM	NM
	5/11/2009	693.8	6.11	NM	687.69
	5/20/2009	693.8	5.99	NM	687.81
	5/27/2009	693.8	7.76	NM	686.04
	6/8/2009	693.8	6.75	NM	687.05
	6/15/2009	693.8	6.01	NM	687.79
	6/25/2009	693.8	5.74	NM	688.06
	6/30/2009	693.8	6.11	NM	687.69
	7/31/2009	693.8	6.10	NM	687.70
	8/13/2009	693.8	6.32	NM	687.48
	8/26/2009	693.8	7.31	NM	686.49
	10/2/2009	693.8	5.89	NM	687.91
	10/6/2009	693.8	6.22	NM	687.58
	12/9/2009	693.8	5.10	NM	688.70
	12/18/2009	693.8	6.11	NM	687.69
	1/26/2010	693.8	5.50	NM	688.30
	2/3/2010	693.8	6.33	NM	687.47
	3/1/2010	693.8	6.07	NM	687.73
	4/16/2010	693.8	6.01	NM	687.79
	6/15/2010	693.8	4.29	NM	689.51
	8/3/2010	693.8	7.40	NM	686.40
	8/10/2010	693.8	7.72	NM	686.08
	8/30/2010	693.8	8.09	NM	685.71
	9/20/2010	693.8	8.19	NM	685.61
	12/13/2010	693.8	5.24	NM	688.56
	2/18/2011	693.8	6.55	NM	687.25
	2/22/2011	693.8	5.37	NM	688.43
	3/4/2011	693.8	5.94	NM	687.86
	3/7/2011	693.8	5.55	NM	688.25
	3/28/2011	693.8	6.79	NM	687.01
	6/21/2011	693.8	6.25	NM	687.55
	9/26/2011	693.8	6.05	NM	687.75
	11/29/2011	693.8	4.91	NM	688.89
	12/9/2011	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
*MW-15S	8/11/2003	695.06	5.15	9.12	689.91
	10/29/2003	695.06	4.45	9.12	690.61
	2/18/2004	695.06	3.28	9.12	691.78
	9/9/2004	695.06	5.67	9.12	689.39
	7/31/2006	695.06	6.61	9.12	688.45
	10/16/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-15D	8/11/2003	694.81	6.46	19.95	688.35
	10/29/2003	694.81	5.04	19.95	689.77
	2/18/2004	694.81	4.45	19.95	690.36
	9/9/2004	694.81	6.32	19.95	688.49
	7/31/2006	694.81	7.10	19.95	687.71
	7/24/2007	694.81	6.56	19.95	688.25
	11/30/2007	694.81	6.21	19.95	688.60
	6/8/2008	694.81	4.43	19.95	690.38
	9/9/2008	694.81	8.20	19.95	686.61
	11/17/2008	694.81	6.03	19.95	688.78
	2/5/2009	694.81	NM	19.95	NM
	3/3/2009	694.81	5.12	NM	689.69
	3/11/2009	694.81	5.26	NM	689.55
	3/17/2009	694.81	5.95	NM	688.86
	3/25/2009	694.81	5.02	NM	689.79
	3/31/2009	694.81	4.87	NM	689.94
	4/20/2009	694.81	4.70	NM	690.11
	4/29/2009	694.81	4.96	NM	689.85
	5/6/2009	694.81	5.05	NM	689.76
	5/11/2009	694.81	5.02	NM	689.79
	5/20/2009	694.81	4.81	NM	690.00
	5/27/2009	694.81	5.14	NM	689.67
	6/8/2009	694.81	5.83	NM	688.98
	6/15/2009	694.81	5.16	NM	689.65
	6/25/2009	694.81	4.96	NM	689.85
	6/30/2009	694.81	5.60	NM	689.21
	7/31/2009	694.81	5.47	NM	689.34
	8/13/2009	694.81	5.85	NM	688.96
	8/26/2009	694.81	7.41	NM	687.40
	10/2/2009	694.81	5.85	NM	688.96
	10/6/2009	694.81	5.97	NM	688.84
	12/9/2009	694.81	5.07	NM	689.74
	12/18/2009	694.81	7.01	NM	687.80
	1/26/2010	694.81	5.54	NM	689.27
	2/3/2010	694.81	5.56	NM	689.25
	3/1/2010	694.81	5.21	NM	689.60
	4/16/2010	694.81	5.35	NM	689.46
	6/15/2010	694.81	4.88	NM	689.93
	8/3/2010	694.81	7.85	NM	686.96
	8/10/2010	694.81	8.43	NM	686.38
	8/30/2010	694.81	8.86	NM	685.95
	9/20/2010	694.81	9.32	NM	685.49
	12/13/2010	694.81	5.27	NM	689.54
	2/18/2011	694.81	5.30	NM	689.51
	2/22/2011	694.81	4.47	NM	690.34
	3/4/2011	694.81	4.60	NM	690.21
	3/7/2011	694.81	4.12	NM	690.69
	3/28/2011	694.81	5.29	NM	689.52
	6/21/2011	694.81	5.50	NM	689.31
	9/26/2011	694.81	6.03	NM	688.78
	7/13/2015	694.81	4.39	NM	690.42
	3/12/2018	694.81	4.82	NM	689.99

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-16S	8/11/2003	695.12	4.35	10.38	690.77
	10/29/2003	695.12	3.03	10.38	692.09
	2/18/2004	695.12	2.81	10.38	692.31
	9/9/2004	695.12	4.24	10.38	690.88
	7/31/2006	695.12	5.75	10.38	689.37
	7/24/2007	695.12	4.59	10.57	690.53
	11/30/2007	695.12	3.84	NM	691.28
	6/8/2008	695.12	2.80	NM	692.32
	9/9/2008	695.12	6.75	NM	688.37
	11/17/2008	695.12	5.12	NM	690.00
	2/5/2009	695.12	4.05	NM	691.07
	3/3/2009	695.12	3.57	NM	691.55
	3/11/2009	695.12	3.56	NM	691.56
	3/17/2009	695.12	4.13	NM	690.99
	3/25/2009	695.12	3.35	NM	691.77
	3/31/2009	695.12	3.16	NM	691.96
	4/20/2009	695.12	2.96	NM	692.16
	4/29/2009	695.12	3.34	NM	691.78
	5/6/2009	695.12	3.20	NM	691.92
	5/11/2009	695.12	3.08	NM	692.04
	5/20/2009	695.12	2.97	NM	692.15
	5/27/2009	695.12	3.12	NM	692.00
	6/8/2009	695.12	3.75	NM	691.37
	6/15/2009	695.12	2.97	NM	692.15
	6/25/2009	695.12	2.92	NM	692.20
	6/30/2009	695.12	3.48	NM	691.64
	7/31/2009	695.12	3.15	NM	691.97
	8/13/2009	695.12	3.48	NM	691.64
	8/26/2009	695.12	5.08	NM	690.04
	10/2/2009	695.12	4.27	NM	690.85
	10/6/2009	695.12	3.97	NM	691.15
	12/9/2009	695.12	2.99	NM	692.13
	6/15/2010	695.12	2.59	NM	692.53
	9/20/2010	695.12	8.25	NM	686.87
	12/13/2010	695.12	3.54	NM	691.58
	3/7/2011	695.12	3.14	NM	691.98
	6/21/2011	695.12	3.00	NM	692.12
	9/26/2011	695.12	5.78	NM	689.34
	12/12/2011	695.12	3.25	NM	691.87
	4/2/2012	695.12	3.59	NM	691.53
	7/9/2012	695.12	7.70	NM	687.42
	10/1/2012	695.12	4.04	NM	691.08
	7/13/2015	695.12	2.81	NM	692.31
	3/12/2018	695.12	2.86	NM	692.26

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-16D	8/11/2003	694.91	5.33	18.93	689.58
	10/29/2003	694.91	4.30	18.93	690.61
	2/18/2004	694.91	3.87	18.93	691.04
	9/9/2004	694.91	5.71	18.93	689.20
	7/31/2006	694.91	6.34	18.93	688.57
	7/24/2007	694.91	5.83	18.92	689.08
	11/30/2007	694.91	5.31	NM	689.60
	6/8/2008	694.91	3.66	NM	691.25
	9/9/2008	694.91	7.55	NM	687.36
	11/17/2008	694.91	7.31	NM	687.60
	2/5/2009	694.91	NM	NM	NM
	3/3/2009	694.91	4.19	NM	690.72
	3/11/2009	694.91	4.30	NM	690.61
	3/17/2009	694.91	4.52	NM	690.39
	3/25/2009	694.91	4.02	NM	690.89
	3/31/2009	694.91	3.88	NM	691.03
	4/20/2009	694.91	3.74	NM	691.17
	4/29/2009	694.91	3.93	NM	690.98
	5/6/2009	694.91	4.06	NM	690.85
	5/11/2009	694.91	4.00	NM	690.91
	5/20/2009	694.91	3.89	NM	691.02
	5/27/2009	694.91	4.05	NM	690.86
	6/8/2009	694.91	4.79	NM	690.12
	6/15/2009	694.91	4.04	NM	690.87
	6/25/2009	694.91	3.94	NM	690.97
	6/30/2009	694.91	4.59	NM	690.32
	7/31/2009	694.91	4.42	NM	690.49
	8/13/2009	694.91	4.69	NM	690.22
	8/26/2009	694.91	6.42	NM	688.49
	10/2/2009	694.91	4.87	NM	690.04
	10/6/2009	694.91	4.98	NM	689.93
	12/9/2009	694.91	4.16	NM	690.75
	12/18/2009	694.91	4.25	NM	690.66
	1/26/2010	694.91	4.15	NM	690.76
	2/3/2010	694.91	4.31	NM	690.60
	3/1/2010	694.91	4.07	NM	690.84
	4/16/2010	694.91	4.00	NM	690.91
	6/15/2010	694.91	3.53	NM	691.38
	8/3/2010	694.91	6.99	NM	687.92
	8/10/2010	694.91	7.40	NM	687.51
	8/30/2010	694.91	8.28	NM	686.63
	9/20/2010	694.91	8.80	NM	686.11
	12/13/2010	694.91	4.17	NM	690.74
	2/18/2011	694.91	4.39	NM	690.52
	2/22/2011	694.91	3.64	NM	691.27
	3/4/2011	694.91	3.67	NM	691.24
	3/7/2011	694.91	3.52	NM	691.39
	3/28/2011	694.91	4.06	NM	690.85
	6/21/2011	694.91	4.90	NM	690.01
	9/26/2011	694.91	5.95	NM	688.96
	7/13/2015	694.91	3.54	NM	691.37
	3/12/2018	694.91	4.20	NM	690.71

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-17S	8/11/2003	694.42	7.83	10.83	686.59
	10/29/2003	694.42	6.01	10.83	688.41
	2/18/2004	694.42	4.70	10.83	689.72
	9/9/2004	694.42	8.11	10.83	686.31
	7/31/2006	694.42	8.37	10.83	686.05
	7/24/2007	694.42	8.20	10.87	686.22
	11/30/2007	694.42	7.08	NM	687.34
	6/8/2008	694.42	4.24	NM	690.18
	9/9/2008	694.42	NM	NM	NM
	11/17/2008	694.42	7.11	NM	687.31
	2/5/2009	694.42	6.29	NM	688.13
	12/9/2009	694.42	4.87	NM	689.55
	1/14/2010	694.42	7.78	NM	686.64
	6/15/2010	694.42	4.73	NM	689.69
	9/20/2010	694.42	9.10	NM	685.32
	12/13/2010	694.42	6.04	NM	688.38
	3/7/2011	694.42	3.67	NM	690.75
	6/21/2011	694.42	6.35	NM	688.07
	9/26/2011	694.42	5.55	NM	688.87
	12/12/2011	694.42	5.20	NM	689.22
	4/2/2012	694.42	6.85	NM	687.57
	7/9/2012	694.42	8.90	NM	685.52
	10/1/2012	694.42	7.46	NM	686.96
	7/13/2015	694.42	3.67	NM	690.75
	3/12/2018	694.42	7.30	NM	687.12

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-17D	8/11/2003	694.41	10.90	19.00	683.51
	10/29/2003	694.41	6.38	19.00	688.03
	2/18/2004	694.41	4.93	19.00	689.48
	9/9/2004	694.41	7.50	19.00	686.91
	7/31/2006	694.41	8.23	19.00	686.18
	7/24/2007	694.41	8.30	19.00	686.11
	11/30/2007	694.41	7.96	NM	686.45
	6/8/2008	694.41	4.14	NM	690.27
	9/9/2008	694.41	NM	NM	NM
	11/17/2008	694.41	7.55	NM	686.86
	2/5/2009	694.41	7.13	NM	687.28
	12/9/2009	694.41	6.65	NM	687.76
	1/14/2010	694.41	7.62	NM	686.79
	1/15/2010	694.41	13.77	NM	680.64
	1/18/2010	694.41	11.51	NM	682.90
	1/19/2010	694.41	10.97	NM	683.44
	1/20/2010	694.41	10.48	NM	683.93
	1/21/2010	694.41	10.08	NM	684.33
	6/15/2010	694.41	6.40	NM	688.01
	9/20/2010	694.41	8.70	NM	685.71
	12/13/2010	694.41	6.81	NM	687.60
	3/7/2011	694.41	4.13	NM	690.28
	6/21/2011	694.41	6.97	NM	687.44
	9/26/2011	694.11	7.98	NM	686.13
	12/12/2011	694.11	4.61	NM	689.50
	4/2/2012	694.11	7.32	NM	686.79
	7/9/2012	694.11	8.93	NM	685.18
	10/1/2012	694.11	7.09	NM	687.02
	7/13/2015	694.11	4.82	MN	689.29
	3/12/2018	694.11	5.43	NM	688.68

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-18S	8/11/2003	692.02	7.57	10.15	684.45
	10/29/2003	692.02	6.03	10.15	685.99
	2/18/2004	692.02	5.49	10.15	686.53
	9/9/2004	692.02	7.56	10.15	684.46
	7/31/2006	692.02	8.85	10.15	683.17
	7/24/2007	692.02	7.94	10.15	684.08
	11/30/2007	692.02	7.41	NM	684.61
	6/8/2008	692.02	5.34	NM	686.68
	9/9/2008	692.02	8.20	NM	683.82
	11/17/2008	692.02	7.55	NM	684.47
	2/5/2009	692.02	7.27	NM	684.75
	12/9/2009	692.02	4.54	NM	687.48
	1/15/2010	692.02	7.50	NM	684.52
	6/15/2010	692.02	4.40	NM	687.62
	9/20/2010	692.02	9.37	NM	682.65
	12/13/2010	692.02	6.82	NM	685.20
	3/7/2011	692.02	4.07	NM	687.95
	6/21/2011	692.02	6.51	NM	685.51
	9/26/2011	692.02	9.85	NM	682.17
	12/12/2011	692.02	5.38	NM	686.64
	4/2/2012	692.02	7.19	NM	684.83
	7/9/2012	692.02	9.57	NM	682.45
	10/1/2012	692.02	7.91	NM	684.11
	7/13/2015	692.02	4.23	NM	687.79
	3/12/2018	692.02	7.67	NM	684.35

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-18D	8/11/2003	691.55	10.09	19.49	681.46
	10/29/2003	691.55	6.91	19.49	684.64
	2/18/2004	691.55	6.24	19.49	685.31
	9/9/2004	691.55	7.57	19.49	683.98
	7/31/2006	691.55	7.58	19.49	683.97
	7/24/2007	691.55	7.68	19.48	683.87
	11/30/2007	691.55	7.65	NM	683.90
	6/8/2008	691.55	5.50	NM	686.05
	9/9/2008	691.55	NM	NM	NM
	11/17/2008	691.55	7.76	NM	683.79
	2/5/2009	691.55	7.38	NM	684.17
	12/9/2009	691.55	7.01	NM	684.54
	6/15/2010	691.55	6.85	NM	684.70
	9/20/2010	691.55	8.72	NM	682.83
	12/13/2010	691.55	8.76	NM	682.79
	3/7/2011	691.55	5.70	NM	685.85
	6/21/2011	691.55	7.11	NM	684.44
	9/26/2011	691.55	8.64	NM	682.91
	12/12/2011	691.55	5.87	NM	685.68
	4/2/2012	691.55	7.33	NM	684.22
	7/9/2012	691.55	8.58	NM	682.97
	10/1/2012	691.55	7.76	NM	683.79
	7/13/2015	691.55	5.96	NM	685.59
	3/12/2018	691.55	7.18	NM	684.37

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-19S	8/11/2003	691.06	7.97	8.00	683.09
	10/29/2003	691.06	7.15	8.00	683.91
	2/18/2004	691.06	6.78	8.00	684.28
	9/9/2004	691.06	8.00	8.00	683.06
	7/31/2006	691.06	8.05	8.00	683.01
	7/24/2007	691.06	8.03	8.00	683.03
	11/30/2007	691.06	8.00	NM	683.06
	6/8/2008	691.06	6.20	NM	684.86
	11/17/2008	691.06	8.00	NM	683.06
	2/5/2009	691.06	8.00	NM	683.06
	12/9/2009	691.06	7.22	NM	683.84
	6/15/2010	691.06	5.59	NM	685.47
	9/20/2010	691.06	8.00	NM	683.06
	12/13/2010	691.06	7.68	NM	683.38
	3/7/2011	691.06	5.41	NM	685.65
	6/21/2011	691.06	7.16	NM	683.90
	9/26/2011	691.06	8.00	NM	683.06
	12/12/2011	691.06	6.71	NM	684.35
	4/2/2012	691.06	7.81	NM	683.25
	7/9/2012	691.06	8.00	8.00	683.06
	10/1/2012	691.06	8.00	7.88	683.06
	7/13/2015	691.06	5.44	NM	685.62
	3/12/2018	691.06	7.94	NM	683.12

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-19D	8/11/2003	691.29	18.00	19.45	673.29
	10/29/2003	691.29	13.30	19.45	677.99
	2/18/2004	691.29	10.99	19.45	680.30
	9/9/2004	691.29	8.41	19.45	682.88
	7/31/2006	691.29	12.52	19.45	678.77
	7/24/2007	691.29	7.11	20.46	684.18
	11/30/2007	691.29	15.88	NM	675.41
	6/8/2008	691.29	9.71	NM	681.58
	9/9/2008	691.29	NM	NM	NM
	11/17/2008	691.29	16.89	NM	674.40
	2/5/2009	691.29	NM	NM	NM
	3/3/2009	691.29	16.31	NM	674.98
	3/11/2009	691.29	16.76	NM	674.53
	3/17/2009	691.29	17.23	NM	674.06
	3/25/2009	691.29	16.80	NM	674.49
	3/31/2009	691.29	17.62	NM	673.67
	4/20/2009	691.29	16.74	NM	674.55
	4/29/2009	691.29	16.29	NM	675.00
	5/6/2009	691.29	16.56	NM	674.73
	5/11/2009	691.29	16.87	NM	674.42
	5/20/2009	691.29	16.32	NM	674.97
	5/27/2009	691.29	16.83	NM	674.46
	6/8/2009	691.29	17.02	NM	674.27
	6/15/2009	691.29	16.72	NM	674.57
	6/25/2009	691.29	16.89	NM	674.40
	6/30/2009	691.29	16.58	NM	674.71
	7/31/2009	691.29	14.88	NM	676.41
	8/13/2009	691.29	14.93	NM	676.36
	8/26/2009	691.29	15.22	NM	676.07
	10/2/2009	691.29	14.05	NM	677.24
	10/6/2009	691.29	14.93	NM	676.36
	12/9/2009	691.29	10.71	NM	680.58
	12/18/2009	691.29	14.94	NM	676.35
	1/26/2010	691.29	14.22	NM	677.07
	2/3/2010	691.29	14.86	NM	676.43
	3/1/2010	691.29	14.72	NM	676.57
	6/15/2010	691.29	10.29	NM	681.00
	8/3/2010	691.29	9.54	NM	681.75
	8/10/2010	691.29	10.84	NM	680.45
	8/30/2010	691.29	11.67	NM	679.62
	9/20/2010	691.29	11.23	NM	680.06
	12/13/2010	691.29	10.18	NM	681.11
	2/18/2011	691.29	12.62	NM	678.67
	2/22/2011	691.29	12.44	NM	678.85
	3/7/2011	691.29	11.40	NM	679.89
	6/21/2011	691.29	8.34	NM	682.95
	9/26/2011	691.29	6.07	NM	685.22
	7/13/2015	691.29	5.98	NM	685.31
	3/12/2018	691.29	7.79	NM	683.50

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-20S	10/29/2003	691.16	6.85	7.60	684.31
	2/18/2004	691.16	5.61	7.60	685.55
	9/9/2004	691.16	7.51	7.60	683.65
	7/31/2006	691.16	7.32	7.60	683.84
	7/24/2007	691.16	7.39	7.79	683.77
	11/30/2007	691.16	6.59	NM	684.57
	6/8/2008	691.16	5.47	NM	685.69
	9/9/2008	691.16	7.60	NM	683.56
	11/17/2008	691.16	6.83	NM	684.33
	2/5/2009	691.16	6.60	NM	684.56
	2/25/2009	691.16	5.84	NM	685.32
	3/3/2009	691.16	6.24	NM	684.92
	12/9/2009	691.16	5.97	NM	685.19
	6/15/2010	691.16	5.32	NM	685.84
	9/20/2010	691.16	7.62	NM	683.54
	12/13/2010	691.16	6.20	NM	684.96
	3/7/2011	691.16	5.34	NM	685.82
	6/21/2011	691.16	6.16	NM	685.00
	9/26/2011	691.16	7.07	NM	684.09
	12/12/2011	691.16	5.79	NM	685.37
	4/2/2012	691.16	6.20	NM	684.96
	7/9/2012	691.16	7.79	7.79	683.37
	10/1/2012	691.16	6.62	NM	684.54
	7/13/2015	691.16	5.35	NM	685.81
	3/12/2018	691.16	6.24	NM	684.92

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-20D	10/29/2003	691.54	6.37	26.00	685.17
	2/18/2004	691.54	6.12	26.00	685.42
	9/9/2004	691.54	7.31	26.00	684.23
	7/31/2006	691.54	7.19	26.00	684.35
	7/24/2007	691.54	7.20	26.00	684.34
	11/30/2007	691.54	7.12	NM	684.42
	6/8/2008	691.54	6.38	NM	685.16
	9/9/2008	691.54	NM	NM	NM
	11/17/2008	691.54	6.75	NM	684.79
	2/5/2009	691.54	NM	NM	NM
	2/25/2009	691.54	6.32	NM	685.22
	3/3/2009	691.54	5.88	NM	685.66
	3/11/2009	691.54	6.45	NM	685.09
	3/17/2009	691.54	6.67	NM	684.87
	3/25/2009	691.54	6.05	NM	685.49
	3/31/2009	691.54	5.96	NM	685.58
	4/20/2009	691.54	5.80	NM	685.74
	4/29/2009	691.54	6.20	NM	685.34
	5/6/2009	691.54	6.18	NM	685.36
	5/11/2009	691.54	6.18	NM	685.36
	5/20/2009	691.54	5.94	NM	685.60
	5/27/2009	691.54	7.26	NM	684.28
	6/8/2009	691.54	7.08	NM	684.46
	6/15/2009	691.54	6.23	NM	685.31
	6/24/2009	691.54	5.76	NM	685.78
	6/30/2009	691.54	6.84	NM	684.70
	7/31/2009	691.54	6.43	NM	685.11
	8/13/2009	691.54	6.97	NM	684.57
	8/26/2009	691.54	7.59	NM	683.95
	10/2/2009	691.54	7.05	NM	684.49
	10/6/2009	691.54	7.11	NM	684.43
	12/9/2009	691.54	6.17	NM	685.37
	12/18/2009	691.54	6.21	NM	685.33
	1/20/2010	691.54	6.83	NM	684.71
	1/26/2010	691.54	5.96	NM	685.58
	2/3/2010	691.54	7.60	NM	683.94
	3/1/2010	691.54	6.26	NM	685.28
	4/16/2010	691.54	6.33	NM	685.21
	6/15/2010	691.54	5.55	NM	685.99
	8/3/2010	691.54	7.60	NM	683.94
	8/10/2010	691.54	7.62	NM	683.92
	8/30/2010	691.54	7.65	NM	683.89
	9/20/2010	691.54	7.62	NM	683.92
	12/13/2010	691.54	6.40	NM	685.14
	2/18/2011	691.54	6.71	NM	684.83
	2/22/2011	691.54	5.47	NM	686.07
	3/4/2011	691.54	5.76	NM	685.78
	3/7/2011	691.54	5.63	NM	685.91
	3/28/2011	691.54	6.58	NM	684.96
	6/21/2011	691.54	6.19	NM	685.35
	9/26/2011	691.54	7.02	NM	684.52
	7/13/2015	691.54	5.58	NM	685.96
	3/12/2018	691.54	6.55	NM	684.99

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-21S	10/29/2003	688.99	4.41	6.90	684.58
	2/18/2004	688.99	4.43	6.90	684.56
	9/9/2004	688.99	4.91	6.90	684.08
	7/31/2006	688.99	4.78	6.90	684.21
	7/24/2007	688.99	5.00	7.08	683.99
	11/30/2007	688.99	4.66	NM	684.33
	6/8/2008	688.99	3.51	NM	685.48
	9/9/2008	688.99	5.05	NM	683.94
	11/17/2008	688.99	4.46	NM	684.53
	2/5/2009	688.99	4.75	NM	684.24
	2/25/2009	688.99	4.32	NM	684.67
	3/3/2009	688.99	4.33	NM	684.66
	12/9/2009	688.99	4.70	NM	684.29
	6/15/2010	688.99	3.67	NM	685.32
	9/20/2010	688.99	5.20	NM	683.79
	12/13/2010	688.99	4.22	NM	684.77
	6/21/2011	688.99	4.29	NM	684.70
	9/26/2011	688.99	4.17	NM	684.82
	12/12/2011	688.99	4.30	NM	684.69
	4/2/2012	688.99	4.49	NM	684.50
	7/9/2012	688.99	4.73	NM	684.26
	10/1/2012	688.99	4.77	NM	684.22
	7/13/2015	688.99	3.77	NM	685.22
	3/12/2018	688.99	4.76	NM	684.23

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-21D	10/29/2003	688.4	3.71	25.09	684.69
	2/18/2004	688.4	3.70	25.09	684.70
	9/9/2004	688.4	5.70	25.09	682.70
	7/31/2006	688.4	4.55	25.09	683.85
	7/24/2007	688.4	4.55	25.27	683.85
	11/30/2007	688.4	4.20	NM	684.20
	6/8/2008	688.4	3.09	NM	685.31
	9/9/2008	688.4	NM	NM	NM
	11/17/2008	688.4	3.95	NM	684.45
	2/5/2009	NM	NM	NM	NM
	2/25/2009	688.4	4.60	NM	683.80
	3/3/2009	688.4	4.46	NM	683.94
	3/11/2009	688.4	4.52	NM	683.88
	3/17/2009	688.4	4.86	NM	683.54
	3/25/2009	688.4	3.95	NM	684.45
	3/31/2009	688.4	4.01	NM	684.39
	4/20/2009	688.4	3.87	NM	684.53
	4/29/2009	688.4	4.15	NM	684.25
	5/6/2009	688.4	4.10	NM	684.30
	5/11/2009	688.4	4.06	NM	684.34
	5/20/2009	688.4	3.77	NM	684.63
	5/27/2009	688.4	4.39	NM	684.01
	6/8/2009	688.4	4.93	NM	683.47
	6/15/2009	688.4	3.94	NM	684.46
	6/25/2009	688.4	3.62	NM	684.78
	6/30/2009	688.4	4.68	NM	683.72
	7/31/2009	688.4	4.58	NM	683.82
	8/13/2009	688.4	4.73	NM	683.67
	8/26/2009	688.4	5.29	NM	683.11
	10/2/2009	688.4	4.12	NM	684.28
	10/6/2009	688.4	4.49	NM	683.91
	12/9/2009	688.4	4.41	NM	683.99
	12/18/2009	688.4	4.69	NM	683.71
	1/20/2010	688.4	5.16	NM	683.24
	1/26/2010	688.4	4.54	NM	683.86
	2/3/2010	688.4	5.07	NM	683.33
	3/1/2010	688.4	4.94	NM	683.46
	4/16/2010	688.4	5.00	NM	683.40
	6/15/2010	688.4	4.32	NM	684.08
	8/3/2010	688.4	5.52	NM	682.88
	8/10/2010	688.4	5.57	NM	682.83
	8/30/2010	688.4	5.60	NM	682.80
	9/20/2010	688.4	5.66	NM	682.74
	12/13/2010	688.4	4.83	NM	683.57
	2/18/2011	688.4	5.05	NM	683.35
	2/22/2011	688.4	4.06	NM	684.34
	3/4/2011	688.4	4.33	NM	684.07
	3/7/2011	688.4	4.14	NM	684.26
	3/28/2011	688.4	5.00	NM	683.40
	6/21/2011	688.4	4.53	NM	683.87
	9/26/2011	688.4	4.55	NM	683.85
	7/13/2015	688.4	3.69	NM	684.71
	3/12/2018	688.4	5.10	NM	683.30

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-22D	10/29/2003	688.35	3.61	25.06	684.74
	2/18/2004	688.35	3.64	25.06	684.71
	9/9/2004	688.35	4.65	25.06	683.70
	7/31/2006	688.35	4.48	25.06	683.87
	7/24/2007	688.35	4.20	21.69	684.15
	11/30/2007	688.35	4.15	NM	684.20
	6/8/2008	688.35	3.08	NM	685.27
	9/9/2008	688.35	NM	NM	NM
	11/17/2008	688.35	3.95	NM	684.40
	2/5/2009	688.35	NM	NM	NM
	3/3/2009	688.35	4.12	NM	684.23
	3/11/2009	688.35	4.14	NM	684.21
	3/17/2009	688.35	4.52	NM	683.83
	3/25/2009	688.35	3.63	NM	684.72
	3/31/2009	688.35	3.70	NM	684.65
	4/20/2009	688.35	3.54	NM	684.81
	4/29/2009	688.35	3.83	NM	684.52
	5/6/2009	688.35	3.81	NM	684.54
	5/11/2009	688.35	3.76	NM	684.59
	5/20/2009	688.35	3.43	NM	684.92
	5/27/2009	688.35	4.06	NM	684.29
	6/8/2009	688.35	4.59	NM	683.76
	6/15/2009	688.35	3.58	NM	684.77
	6/25/2009	688.35	3.28	NM	685.07
	6/30/2009	688.35	4.35	NM	684.00
	7/31/2009	688.35	4.32	NM	684.03
	8/13/2009	688.35	4.42	NM	683.93
	8/26/2009	688.35	4.97	NM	683.38
	10/2/2009	688.35	3.78	NM	684.57
	10/6/2009	688.35	4.17	NM	684.18
	12/9/2009	688.35	4.12	NM	684.23
	12/18/2009	688.35	4.34	NM	684.01
	1/20/2010	688.35	4.83	NM	683.52
	1/26/2010	688.35	4.23	NM	684.12
	2/3/2010	688.35	4.74	NM	683.61
	3/1/2010	688.35	4.62	NM	683.73
	4/16/2010	688.35	4.68	NM	683.67
	6/15/2010	688.35	3.99	NM	684.36
	8/3/2010	688.35	5.18	NM	683.17
	8/10/2010	688.35	5.24	NM	683.11
	8/30/2010	688.35	5.27	NM	683.08
	9/20/2010	688.35	5.34	NM	683.01
	12/13/2010	688.35	4.50	NM	683.85
	2/18/2011	688.35	4.74	NM	683.61
	2/22/2011	688.35	3.73	NM	684.62
	3/4/2011	688.35	4.02	NM	684.33
	3/7/2011	688.35	3.82	NM	684.53
	3/28/2011	688.35	4.62	NM	683.73
	6/21/2011	688.35	4.17	NM	684.18
	9/26/2011	688.35	4.24	NM	684.11
	7/13/2015	688.35	3.02	NM	685.33
	3/12/2018	688.35	4.78	NM	683.57

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-23D	10/29/2003	687.96	3.23	24.05	684.73
	2/18/2004	687.96	2.55	24.05	685.41
	9/9/2004	687.96	4.30	24.05	683.66
	7/31/2006	687.96	4.09	24.05	683.87
	7/24/2007	687.96	4.08	24.25	683.88
	11/30/2007	687.96	7.57	NM	680.39
	6/8/2008	687.96	2.61	NM	685.35
	9/9/2008	687.96	NM	NM	NM
	11/17/2008	687.96	3.50	NM	684.46
	2/5/2009	687.96	NM	NM	NM
	3/3/2009	687.96	3.79	NM	684.17
	3/11/2009	687.96	3.80	NM	684.16
	3/17/2009	687.96	4.10	NM	683.86
	3/25/2009	687.96	3.28	NM	684.68
	3/31/2009	687.96	3.27	NM	684.69
	4/20/2009	687.96	3.13	NM	684.83
	4/29/2009	687.96	3.42	NM	684.54
	5/6/2009	687.96	3.50	NM	684.46
	5/11/2009	687.96	3.29	NM	684.67
	5/20/2009	687.96	3.08	NM	684.88
	5/27/2009	687.96	3.68	NM	684.28
	6/8/2009	687.96	4.15	NM	683.81
	6/15/2009	687.96	3.22	NM	684.74
	6/25/2009	687.96	2.86	NM	685.10
	6/30/2009	687.96	3.87	NM	684.09
	7/31/2009	687.96	3.92	NM	684.04
	8/13/2009	687.96	4.01	NM	683.95
	8/26/2009	687.96	4.60	NM	683.36
	10/2/2009	687.96	3.42	NM	684.54
	10/6/2009	687.96	3.77	NM	684.19
	12/9/2010	687.96	3.72	NM	684.24
	12/18/2009	687.96	3.93	NM	684.03
	1/15/2010	687.96	4.51	NM	683.45
	1/26/2010	687.96	3.83	NM	684.13
	2/3/2010	687.96	4.40	NM	683.56
	3/1/2010	687.96	4.35	NM	683.61
	6/15/2010	687.96	3.53	NM	684.43
	8/30/2010	687.96	4.88	NM	683.08
	9/20/2010	687.96	6.95	NM	681.01
	12/13/2010	687.96	4.20	NM	683.76
	2/18/2011	687.96	4.39	NM	683.57
	2/22/2011	687.96	3.32	NM	684.64
	3/7/2011	687.96	3.35	NM	684.61
	6/21/2011	687.96	3.76	NM	684.20
	9/26/2011	687.96	3.75	NM	684.21
	7/13/2015	687.96	2.70	NM	685.26
	3/12/2018	687.96	5.62	NM	682.34

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-24A	11/17/2008	687.89	3.90	27.68	683.99
	2/25/2009	687.89	3.78	NM	684.11
	3/3/2009	687.89	4.31	NM	683.58
	3/11/2009	687.89	3.80	NM	684.09
	3/17/2009	687.89	4.52	NM	683.37
	3/25/2009	687.89	3.45	NM	684.44
	3/31/2009	687.89	3.26	NM	684.63
	4/20/2009	687.89	3.08	NM	684.81
	4/29/2009	687.89	3.41	NM	684.48
	5/6/2009	687.89	3.45	NM	684.44
	5/11/2009	687.89	3.31	NM	684.58
	5/20/2009	687.89	2.98	NM	684.91
	5/27/2009	687.89	3.61	NM	684.28
	6/8/2009	687.89	4.09	NM	683.80
	6/15/2009	687.89	3.12	NM	684.77
	6/25/2009	687.89	2.74	NM	685.15
	6/30/2009	687.89	3.64	NM	684.25
	7/31/2009	687.89	4.18	NM	683.71
	8/13/2009	687.89	3.90	NM	683.99
	8/26/2009	687.89	4.53	NM	683.36
	10/2/2009	687.89	3.48	NM	684.41
	10/6/2009	687.89	3.83	NM	684.06
	12/9/2009	687.89	3.59	NM	684.30
	12/18/2009	687.89	3.88	NM	684.01
	1/4/2010	687.89	4.33	NM	683.56
	1/6/2010	687.89	4.47	NM	683.42
	1/11/2010	687.89	4.58	NM	683.31
	1/18/2010	687.89	4.13	NM	683.76
	1/20/2010	687.89	4.33	NM	683.56
	1/25/2010	687.89	3.63	NM	684.26
	2/2/2010	687.89	4.30	NM	683.59
	2/4/2010	687.89	4.40	NM	683.49
	2/5/2010	687.89	4.31	NM	683.58
	2/22/2010	687.89	3.90	NM	683.99
	3/2/2010	687.89	4.19	NM	683.70
	3/4/2010	687.89	4.29	NM	683.60
	3/8/2010	687.89	4.19	NM	683.70
	3/11/2010	687.89	4.42	NM	683.47
	4/16/2010	687.89	4.21	NM	683.68
	4/26/2010	687.89	3.26	NM	684.63

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-24A	5/5/2010	687.89	3.88	NM	684.01
	6/1/2010	687.89	4.21	NM	683.68
	6/9/2010	687.89	4.03	NM	683.86
	6/15/2010	687.89	3.50	NM	684.39
	6/24/2010	687.89	4.14	NM	683.75
	8/3/2010	687.89	4.75	NM	683.14
	8/10/2010	687.89	4.74	NM	683.15
	8/17/2010	687.89	5.12	NM	682.77
	8/23/2010	687.89	4.64	NM	683.25
	8/30/2010	687.89	4.76	NM	683.13
	9/20/2010	687.89	4.84	NM	683.05
	9/24/2010	687.89	4.89	NM	683.00
	10/1/2010	687.89	5.04	NM	682.85
	10/5/2010	687.89	4.94	NM	682.95
	10/12/2010	687.89	5.07	NM	682.82
	10/18/2010	687.89	5.01	NM	682.88
	12/10/2010	687.89	4.30	NM	683.59
	12/13/2010	687.89	3.98	NM	683.91
	12/28/2010	687.89	4.21	NM	683.68
	1/3/2011	687.89	3.97	NM	683.92
	1/10/2011	687.89	4.70	NM	683.19
	1/17/2011	687.89	4.39	NM	683.50
	2/18/2011	687.89	4.32	NM	683.57
	2/22/2011	687.89	3.29	NM	684.60
	3/4/2011	687.89	3.52	NM	684.37
	3/7/2011	687.89	3.34	NM	684.55
	3/18/2011	687.89	3.91	NM	683.98
	3/28/2011	687.89	4.42	NM	683.47
	6/21/2011	687.89	3.72	NM	684.17
	9/26/2011	687.89	4.91	NM	682.98
	7/13/2015	687.89	2.35	NM	685.54
	3/12/2018	687.89	3.70	NM	684.19

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-25A	11/17/2008	692.65	5.20	22.18	687.45
	3/3/2009	692.65	4.78	NM	687.87
	3/11/2009	692.65	5.20	NM	687.45
	3/17/2009	692.65	5.95	NM	686.70
	3/25/2009	692.65	4.81	NM	687.84
	3/31/2009	692.65	4.58	NM	688.07
	4/20/2009	692.65	4.35	NM	688.30
	4/29/2009	692.65	4.70	NM	687.95
	5/6/2009	692.65	4.85	NM	687.80
	5/11/2009	692.65	4.78	NM	687.87
	5/20/2009	692.65	4.42	NM	688.23
	5/27/2009	692.65	4.95	NM	687.70
	6/8/2009	692.65	5.66	NM	686.99
	6/15/2009	692.65	4.79	NM	687.86
	6/25/2009	692.65	4.64	NM	688.01
	6/30/2009	692.65	5.49	NM	687.16
	7/31/2009	692.65	5.21	NM	687.44
	8/13/2009	692.65	5.56	NM	687.09
	8/26/2009	692.65	6.74	NM	685.91
	10/2/2009	692.65	4.98	NM	687.67
	10/6/2009	692.65	5.61	NM	687.04
	12/9/2009	692.65	4.61	NM	688.04
	12/18/2009	692.65	4.58	NM	688.07
	1/26/2010	692.65	4.35	NM	688.30
	2/3/2010	692.65	5.10	NM	687.55
	3/1/2010	692.65	4.88	NM	687.77
	6/15/2010	692.65	4.10	NM	688.55
	8/3/2010	692.65	6.99	NM	685.66
	8/10/2010	692.65	7.20	NM	685.45
	9/20/2010	692.65	7.63	NM	685.02
	12/13/2010	692.65	5.25	NM	687.40
	3/7/2011	692.65	4.32	NM	688.33
	6/21/2011	692.65	5.22	NM	687.43
	9/26/2011	692.65	5.01	NM	687.64
	12/12/2011	692.65	5.06	NM	687.59
	4/2/2012	692.65	4.61	NM	688.04
	7/9/2012	692.65	7.47	NM	685.18
	10/1/2012	692.65	4.90	NM	687.75
	7/13/2015	692.65	4.01	NM	688.64
	3/12/2018	692.65	5.32	NM	687.33

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-26A	11/17/2008	692.00	36.60	40.68	655.40
	3/3/2009	692.00	33.08	NM	658.92
	3/11/2009	692.00	33.00	NM	659.00
	3/17/2009	692.00	33.28	NM	658.72
	3/25/2009	692.00	31.97	NM	660.03
	3/31/2009	692.00	33.49	NM	658.51
	4/20/2009	692.00	37.51	NM	654.49
	4/29/2009	692.00	36.79	NM	655.21
	5/6/2009	692.00	36.78	NM	655.22
	5/11/2009	692.00	35.54	NM	656.46
	5/20/2009	692.00	36.39	NM	655.61
	5/27/2009	692.00	36.45	NM	655.55
	6/8/2009	692.00	36.23	NM	655.77
	6/15/2009	692.00	35.90	NM	656.10
	6/25/2009	692.00	35.81	NM	656.19
	6/30/2009	692.00	35.56	NM	656.44
	7/31/2009	692.00	33.23	NM	658.77
	8/13/2009	692.00	33.14	NM	658.86
	8/26/2009	692.00	33.14	NM	658.86
	10/2/2009	692.00	30.76	NM	661.24
	10/6/2009	692.00	31.61	NM	660.39
	12/9/2009	692.00	25.93	NM	666.07
	12/18/2009	692.00	29.98	NM	662.02
	1/13/2010	692.00	28.94	NM	663.06
	1/14/2010	692.00	35.88	NM	656.12
	1/15/2010	692.00	35.79	NM	656.21
	1/18/2010	692.00	35.67	NM	656.33
	1/19/2010	692.00	35.64	NM	656.36
	1/20/2010	692.00	35.58	NM	656.42
	1/26/2010	692.00	35.36	NM	656.64
	2/3/2010	692.00	35.01	NM	656.99
	3/1/2010	692.00	34.85	NM	657.15
	6/15/2010	692.00	25.05	NM	666.95
	8/3/2010	692.00	22.39	NM	669.61
	8/10/2010	692.00	23.38	NM	668.62
	9/20/2010	692.00	22.38	NM	669.62
	12/13/2010	692.00	18.20	NM	673.80
	3/7/2011	692.00	22.07	NM	669.93
	6/21/2011	692.00	23.38	NM	668.62
	9/26/2011	692.00	25.03	NM	666.97
	12/12/2011	692.00	26.43	NM	665.57
	4/2/2012	692.00	26.79	NM	665.21
	7/9/2012	692.00	27.08	NM	664.92
	10/1/2012	692.00	30.45	NM	661.55
	7/13/2015	692.00	8.86	NM	683.14
	3/12/2018	692.00	5.63	NM	686.37

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-27A	11/17/2008	691.55	7.74	34.00	683.81
	2/25/2009	691.55	7.42	NM	684.13
	3/3/2009	691.55	7.34	NM	684.21
	3/11/2009	691.55	6.34	NM	685.21
	3/17/2009	691.55	7.77	NM	683.78
	3/25/2009	691.55	6.83	NM	684.72
	3/31/2009	691.55	6.39	NM	685.16
	4/20/2009	691.55	6.73	NM	684.82
	4/29/2009	691.55	7.05	NM	684.50
	5/6/2009	691.55	7.00	NM	684.55
	5/11/2009	691.55	6.95	NM	684.60
	5/20/2009	691.55	6.64	NM	684.91
	5/27/2009	691.55	7.26	NM	684.29
	6/8/2009	691.55	7.83	NM	683.72
	6/15/2009	691.55	6.82	NM	684.73
	6/24/2009	691.55	6.48	NM	685.07
	6/30/2009	691.55	6.71	NM	684.84
	7/31/2009	691.55	7.73	NM	683.82
	8/13/2009	691.55	7.67	NM	683.88
	8/26/2009	691.55	8.24	NM	683.31
	10/2/2009	691.55	7.02	NM	684.53
	10/6/2009	691.55	7.39	NM	684.16
	12/9/2009	691.55	7.28	NM	684.27
	12/18/2009	691.55	7.53	NM	684.02
	1/4/2010	691.55	8.01	NM	683.54
	1/6/2010	691.55	8.12	NM	683.43
	1/11/2010	691.55	8.20	NM	683.35
	1/18/2010	691.55	8.02	NM	683.53
	1/21/2010	691.55	7.92	NM	683.63
	1/25/2010	691.55	7.23	NM	684.32
	2/2/2010	691.55	7.94	NM	683.61

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-27A	2/4/2010	691.55	7.76	NM	683.79
	2/5/2010	691.55	7.81	NM	683.74
	2/22/2010	691.55	7.12	NM	684.43
	3/2/2010	691.55	7.88	NM	683.67
	3/4/2010	691.55	7.91	NM	683.64
	3/8/2010	691.55	7.98	NM	683.57
	3/11/2010	691.55	7.96	NM	683.59
	3/24/2010	691.55	7.29	NM	684.26
	4/15/2010	691.55	7.75	NM	683.80
	4/19/2010	691.55	7.97	NM	683.58
	4/26/2010	691.55	7.11	NM	684.44
	5/5/2010	691.55	7.46	NM	684.09
	6/1/2010	691.55	7.93	NM	683.62
	6/9/2010	691.55	7.78	NM	683.77
	6/15/2010	691.55	7.11	NM	684.44
	6/24/2010	691.55	7.22	NM	684.33
	7/22/2010	691.55	7.98	NM	683.57
	8/3/2010	691.55	8.39	NM	683.16
	8/10/2010	691.55	8.43	NM	683.12
	8/17/2010	691.55	8.62	NM	682.93
	8/23/2010	691.55	8.37	NM	683.18
	8/30/2010	691.55	8.49	NM	683.06
	9/20/2010	691.55	8.55	NM	683.00
	12/13/2010	691.55	7.64	NM	683.91
	2/18/2011	691.55	7.92	NM	683.63
	2/22/2011	691.55	6.90	NM	684.65
	3/7/2011	691.55	6.95	NM	684.60
	6/21/2011	691.55	7.34	NM	684.21
	9/26/2011	691.55	7.40	NM	684.15
		Well Decommissioned / Converted to RW-17			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-28A	2/9/2009	692.54	51.19	66.40	641.35
	2/25/2009	692.54	34.09	NM	658.45
	3/3/2009	692.54	26.00	NM	666.54
	3/11/2009	692.54	17.57	NM	674.97
	3/17/2009	692.54	12.96	NM	679.58
	3/25/2009	692.54	8.40	NM	684.14
	3/31/2009	692.54	5.83	NM	686.71
	4/20/2009	692.54	0.71	NM	691.83
	4/29/2009	692.54	0.08	NM	692.46
	5/6/2009	692.54	0.06	NM	692.48
	5/11/2009	692.54	0.04	NM	692.50
	5/20/2009	692.54	0.09	NM	692.45
	5/27/2009	692.54	0.07	NM	692.47
	6/8/2009	692.54	0.08	NM	692.46
	6/15/2009	692.54	0.07	NM	692.47
	6/24/2009	692.54	0.15	NM	692.39
	6/30/2009	692.54	0.11	NM	692.43
	7/31/2009	692.54	0.00	NM	692.54
	8/5/2009	692.54	0.00	NM	692.54
	8/13/2009	692.54	11.68	NM	680.86
	8/26/2009	692.54	4.89	NM	687.65
	10/2/2009	692.54	0.80	NM	691.74
	10/6/2009	692.54	0.00	NM	692.54
	12/9/2009	692.54	0.00	NM	692.54
	12/28/2009	692.54	0.00	NM	692.54
	1/18/2010	692.54	0.01	NM	692.53
	1/19/2010	692.54	49.81	NM	642.73
	1/20/2010	692.54	46.95	NM	645.59
	1/21/2010	692.54	44.48	NM	648.06
	1/22/2010	692.54	42.12	NM	650.42
	1/25/2010	692.54	35.82	NM	656.72
	4/29/2010	692.54	0.00	NM	692.54
	5/17/2010	692.54	0.68	NM	691.86
	6/15/2010	692.54	0.11	NM	692.43
	8/30/2010	692.54	0.00	NM	692.54
	9/20/2010	692.54	0.08	NM	692.46
	12/13/2010	692.54	0.00	NM	692.54
	3/7/2011	692.54	0.00	NM	692.54
	6/21/2011	692.54	0.00	NM	692.54
	9/26/2011	692.54	0.00	NM	692.54
	12/12/2011	692.54	0.00	NM	692.54
	4/2/2012	692.54	0.00	NM	692.54
	7/9/2012	692.54	0.00	NM	692.54
	10/1/2012	692.54	0.00	NM	692.54
	7/13/2015	692.54	0.00	NM	692.54
	3/12/2018	692.54	0.00	NM	692.54

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-28B	2/9/2009	692.28	6.97	23.62	685.31
	2/25/2009	692.28	8.55	NM	683.73
	3/3/2009	692.28	8.35	NM	683.93
	3/11/2009	692.28	8.45	NM	683.83
	3/17/2009	692.28	9.02	NM	683.26
	3/25/2009	692.28	7.99	NM	684.29
	3/31/2009	692.28	7.82	NM	684.46
	4/20/2009	692.28	7.62	NM	684.66
	4/29/2009	692.28	7.99	NM	684.29
	5/6/2009	692.28	8.14	NM	684.14
	5/11/2009	692.28	7.95	NM	684.33
	5/20/2009	692.28	7.55	NM	684.73
	5/27/2009	692.28	8.37	NM	683.91
	6/8/2009	692.28	9.19	NM	683.09
	6/15/2009	692.28	7.77	NM	684.51
	6/24/2009	692.28	7.42	NM	684.86
	6/30/2009	692.28	8.79	NM	683.49
	7/31/2009	692.28	8.85	NM	683.43
	8/5/2009	692.28	7.53	NM	684.75
	8/13/2009	692.28	8.94	NM	683.34
	8/26/2009	692.28	9.74	NM	682.54
	10/2/2009	692.28	8.09	NM	684.19
	10/6/2009	692.28	6.96	NM	685.32
	12/9/2009	692.28	7.99	NM	684.29
	12/28/2009	692.28	9.78	NM	682.50
	1/21/2010	692.28	8.67	NM	683.61
	4/29/2010	692.28	8.01	NM	684.27
	5/17/2010	692.28	7.91	NM	684.37
	6/15/2010	692.28	7.33	NM	684.95
	8/30/2010	692.28	10.39	NM	681.89
	9/20/2010	692.28	10.48	NM	681.80
	12/13/2010	692.28	8.44	NM	683.84
	2/18/2011	692.28	9.08	NM	683.20
	3/7/2011	692.28	7.23	NM	685.05
	6/21/2011	692.28	8.10	NM	684.18
	9/26/2011	692.28	8.11	NM	684.17
	12/12/2011	692.28	8.25	NM	684.03
	4/2/2012	692.28	8.69	NM	683.59
	7/9/2012	692.28	9.91	NM	682.37
	10/1/2012	692.28	8.98	NM	683.30
	7/13/2015	692.28	7.08	NM	685.20
	3/12/2018	692.28	9.84	NM	682.44

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-28C	2/9/2009	692.71	27.30	38.60	665.41
	2/25/2009	692.71	28.45	NM	664.26
	3/3/2009	692.71	24.44	NM	668.27
	3/11/2009	692.71	20.35	NM	672.36
	3/17/2009	692.71	19.15	NM	673.56
	3/25/2009	692.71	16.48	NM	676.23
	3/31/2009	692.71	14.84	NM	677.87
	4/20/2009	692.71	11.12	NM	681.59
	4/29/2009	692.71	10.54	NM	682.17
	5/6/2009	692.71	10.05	NM	682.66
	5/11/2009	692.71	9.87	NM	682.84
	5/20/2009	692.71	9.31	NM	683.40
	5/27/2009	692.71	9.19	NM	683.52
	6/8/2009	692.71	9.28	NM	683.43
	6/15/2009	692.71	9.19	NM	683.52
	6/25/2009	692.71	9.05	NM	683.66
	6/30/2009	692.71	8.92	NM	683.79
	7/31/2009	692.71	8.81	NM	683.90
	8/5/2009	692.71	8.94	NM	683.77
	8/13/2009	692.71	20.47	NM	672.24
	8/26/2009	692.71	15.96	NM	676.75
	10/2/2009	692.71	10.99	NM	681.72
	10/6/2009	692.71	10.87	NM	681.84
	12/9/2009	692.71	8.82	NM	683.89
	12/28/2009	692.71	14.43	NM	678.28
	1/14/2010	692.71	11.70	NM	681.01
	1/15/2010	692.71	24.96	NM	667.75
	1/18/2010	692.71	23.05	NM	669.66
	1/19/2010	692.71	22.49	NM	670.22
	1/20/2010	692.71	21.91	NM	670.80
	1/21/2010	692.71	21.38	NM	671.33
	4/29/2010	692.71	9.32	NM	683.39
	5/17/2010	692.71	8.67	NM	684.04
	6/15/2010	692.71	9.24	NM	683.47
	8/30/2010	692.71	10.51	NM	682.20
	9/20/2010	692.71	10.46	NM	682.25
	12/13/2010	692.71	9.77	NM	682.94
	2/18/2011	692.71	9.77	NM	682.94
	3/7/2011	692.71	8.85	NM	683.86
	6/21/2011	692.71	9.14	NM	683.57
	9/26/2011	692.71	10.22	NM	682.49
	12/12/2011	692.71	8.44	NM	684.27
	4/2/2012	692.71	9.77	NM	682.94
	7/9/2012	692.71	11.27	NM	681.44
	10/1/2012	692.71	10.42	NM	682.29
	7/13/2015	692.71	8.81	NM	683.90
	3/12/2018	692.71	10.01	NM	682.70

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-29A	2/9/2009	696.28	49.15	79.65	647.13
	2/25/2009	696.28	55.32	NM	640.96
	3/3/2009	696.28	16.36	NM	679.92
	3/11/2009	696.28	7.22	NM	689.06
	3/17/2009	696.28	2.81	NM	693.47
	3/25/2009	696.28	1.23	NM	695.05
	3/31/2009	696.28	1.06	NM	695.22
	4/20/2009	696.28	0.13	NM	696.15
	4/29/2009	696.28	0.17	NM	696.11
	5/6/2009	696.28	0.09	NM	696.19
	5/11/2009	696.28	0.06	NM	696.22
	5/20/2009	696.28	0.08	NM	696.20
	5/27/2009	696.28	0.00	NM	696.28
	6/8/2009	696.28	0.13	NM	696.15
	6/15/2009	696.28	0.08	NM	696.20
	6/25/2009	696.28	0.04	NM	696.24
	8/5/2009	696.28	0.00	NM	696.28
	8/13/2009	696.28	9.78	NM	686.50
	8/26/2009	696.28	1.84	NM	694.44
	10/2/2009	696.28	0.09	NM	696.19
	10/6/2009	696.28	0.16	NM	696.12
	12/9/2009	696.28	0.00	NM	696.28
	12/18/2009	696.28	4.04	NM	692.24
	1/18/2010	696.28	0.24	NM	696.04
	1/19/2010	696.28	36.72	NM	659.56
	1/20/2010	696.28	31.36	NM	664.92
	1/21/2010	696.28	28.49	NM	667.79
	1/22/2010	696.28	26.28	NM	670.00
	1/25/2010	696.28	20.14	NM	676.14
	1/26/2010	696.28	18.52	NM	677.76
	4/29/2010	696.28	0.20	NM	696.08
	5/17/2010	696.28	0.35	NM	695.93
	6/15/2010	696.28	0.38	NM	695.90
	8/30/2010	696.28	0.07	NM	696.21
	9/20/2010	696.28	0.00	NM	696.28
	12/13/2010	696.28	0.00	NM	696.28
	2/18/2011	696.28	0.69	NM	695.59
	3/7/2011	696.28	0.13	NM	696.15
	6/21/2011	696.28	0.20	NM	696.08
	9/26/2011	696.28	0.00	NM	696.28
	12/12/2011	696.28	0.00	NM	696.28
	4/2/2012	696.28	0.00	NM	696.28
	7/9/2012	696.28	0.00	NM	696.28
	10/1/2012	696.28	0.00	NM	696.28
	7/13/2015	696.28	0.12	NM	696.16
	3/12/2018	696.28	0.00	NM	696.28

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-29B	2/9/2009	696.23	15.63	40.70	680.60
	2/25/2009	696.23	11.63	NM	684.60
	3/3/2009	696.23	14.22	NM	682.01
	3/11/2009	696.23	10.86	NM	685.37
	3/17/2009	696.23	10.10	NM	686.13
	3/25/2009	696.23	10.79	NM	685.44
	3/31/2009	696.23	10.83	NM	685.40
	4/20/2009	696.23	6.44	NM	689.79
	4/29/2009	696.23	10.08	NM	686.15
	5/6/2009	696.23	11.08	NM	685.15
	5/11/2009	696.23	11.53	NM	684.70
	5/20/2009	696.23	10.48	NM	685.75
	5/27/2009	696.23	10.96	NM	685.27
	6/8/2009	696.23	11.15	NM	685.08
	6/15/2009	696.23	10.84	NM	685.39
	6/25/2009	696.23	10.43	NM	685.80
	6/30/2009	696.23	10.49	NM	685.74
	7/31/2009	696.23	8.84	NM	687.39
	8/5/2009	696.23	9.11	NM	687.12
	8/13/2009	696.23	10.89	NM	685.34
	8/26/2009	696.23	9.67	NM	686.56
	10/2/2009	696.23	7.93	NM	688.30
	10/6/2009	696.23	8.08	NM	688.15
	12/9/2009	696.23	6.94	NM	689.29
	12/18/2009	696.23	18.30	NM	677.93
	1/18/2010	696.23	7.96	NM	688.27
	1/19/2010	696.23	27.30	NM	668.93
	1/20/2010	696.23	22.34	NM	673.89
	1/21/2010	696.23	19.19	NM	677.04
	1/22/2010	696.23	16.66	NM	679.57
	1/25/2010	696.23	12.03	NM	684.20
	1/26/2010	696.23	11.31	NM	684.92
	2/3/2010	696.23	10.45	NM	685.78
	2/22/2010	696.23	8.22	NM	688.01
	3/1/2010	696.23	10.00	NM	686.23
	3/8/2010	696.23	9.18	NM	687.05
	4/16/2010	696.23	10.56	NM	685.67
	6/1/2010	696.23	11.58	NM	684.65
	6/15/2010	696.23	11.16	NM	685.07
	7/6/2010	696.23	10.83	NM	685.40
	8/3/2010	696.23	10.09	NM	686.14
	8/10/2010	696.23	9.82	NM	686.41
	8/30/2010	696.23	9.45	NM	686.78
	9/20/2010	696.23	8.67	NM	687.56
	12/13/2010	696.23	7.96	NM	688.27
	2/22/2011	696.23	8.32	NM	687.91
	3/4/2011	696.23	7.85	NM	688.38
	3/7/2011	696.23	8.56	NM	687.67
	3/28/2011	696.23	9.95	NM	686.28
	6/21/2011	696.23	11.34	NM	684.89
	9/26/2011	696.23	8.70	NM	687.53
	7/13/2015	696.23	8.08	NM	688.15
	3/12/2018	696.23	6.60	NM	689.63

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-30A	11/4/2009	691.39	6.98	33.30	684.41
	12/9/2009	691.39	7.39	NM	684.00
	1/19/2010	691.39	8.32	NM	683.07
	6/15/2010	691.39	6.78	NM	684.61
	8/30/2010	691.39	8.84	NM	682.55
	9/20/2010	691.39	8.83	NM	682.56
	12/13/2010	691.39	7.90	NM	683.49
	3/7/2011	691.39	6.52	NM	684.87
	6/21/2011	691.39	7.63	NM	683.76
	9/26/2011	691.39	7.51	NM	683.88
	12/12/2011	691.39	7.61	NM	683.78
	4/2/2012	691.39	8.03	NM	683.36
	7/9/2012	691.39	8.74	NM	682.65
	10/1/2012	691.39	8.19	NM	683.20
	7/13/2015	691.39	5.43	NM	685.96
	3/12/2018	691.39	9.01	NM	682.38

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-30B	11/4/2009	691.58	33.90	48.80	657.68
	12/9/2009	691.58	23.32	NM	668.26
	6/15/2010	691.58	9.98	NM	681.60
	8/30/2010	691.58	12.62	NM	678.96
	9/20/2010	691.58	11.75	NM	679.83
	12/13/2010	691.58	11.31	NM	680.27
	3/7/2011	691.58	9.91	NM	681.67
	6/21/2011	691.58	8.60	NM	682.98
	9/26/2011	691.58	10.95	NM	680.63
	12/12/2011	691.58	9.73	NM	681.85
	4/2/2012	691.58	7.84	NM	683.74
	7/9/2012	691.58	10.41	NM	681.17
	10/1/2012	691.58	11.52	NM	680.06
	7/13/2015	691.58	8.40	NM	683.18
	3/12/2018	691.58	6.74	NM	684.84

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-31A	11/4/2009	692.88	4.87	26.29	688.01
	12/9/2009	692.88	4.13	NM	688.75
	1/19/2010	692.88	4.96	NM	687.92
	6/15/2010	692.88	3.75	NM	689.13
	8/30/2010	692.88	6.33	NM	686.55
	9/20/2010	692.88	6.38	NM	686.50
	12/13/2010	692.88	4.84	NM	688.04
	2/18/2011	692.88	5.07	NM	687.81
	3/7/2011	692.88	3.74	NM	689.14
	6/21/2011	692.88	4.81	NM	688.07
	9/26/2011	692.88	4.14	NM	688.74
	12/12/2011	692.88	4.66	NM	688.22
	4/2/2012	692.88	4.55	NM	688.33
	7/9/2012	692.88	5.60	NM	687.28
	10/1/2012	692.88	4.90	NM	687.98
	7/13/2015	692.88	4.90	NM	687.98
	3/12/2018	692.88	4.65	NM	688.23

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-31B	11/4/2009	692.55	19.25	63.18	673.30
	12/9/2009	692.55	0.08	NM	692.47
	1/18/2010	692.55	0.12	NM	692.43
	1/19/2010	692.55	40.95	NM	651.60
	1/20/2010	692.55	35.22	NM	657.33
	1/21/2010	692.55	30.61	NM	661.94
	1/22/2010	692.55	26.36	NM	666.19
	1/25/2010	692.55	16.36	NM	676.19
	4/29/2010	692.55	0.00	NM	692.55
	5/17/2010	692.55	0.16	NM	692.39
	6/15/2010	692.55	0.22	NM	692.33
	9/20/2010	692.55	2.31	NM	690.24
	12/13/2010	692.55	0.00	NM	692.55
	2/18/2011	692.55	0.00	NM	692.55
	3/7/2011	692.55	0.00	NM	692.55
	6/21/2011	692.55	0.00	NM	692.55
	9/26/2011	692.55	0.00	NM	692.55
	12/12/2011	692.55	0.00	NM	692.55
	4/2/2012	692.55	0.00	NM	692.55
	7/9/2012	692.55	0.00	NM	692.55
	10/1/2012	692.55	0.00	NM	692.55
	7/13/2015	692.55	0.00	NM	692.55
	3/12/2018	692.55	0.00	NM	692.55

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-31C	11/4/2009	692.80	32.97	35.67	659.83
	12/9/2009	692.80	28.03	NM	664.77
	1/19/2010	692.80	18.10	NM	674.70
	1/20/2010	692.80	32.37	NM	660.43
	1/21/2010	692.80	32.15	NM	660.65
	1/22/2010	692.80	31.92	NM	660.88
	1/25/2010	692.80	31.25	NM	661.55
	1/26/2010	692.80	30.71	NM	662.09
	6/15/2010	692.80	8.85	NM	683.95
	8/30/2010	692.80	9.40	NM	683.40
	9/20/2010	692.80	8.82	NM	683.98
	12/13/2010	692.80	9.03	NM	683.77
	2/18/2011	692.80	10.02	NM	682.78
	3/7/2011	692.80	9.12	NM	683.68
	6/21/2011	692.80	9.01	NM	683.79
	9/26/2011	692.80	9.35	NM	683.45
	12/12/2011	692.80	8.76	NM	684.04
	4/2/2012	692.80	8.67	NM	684.13
	7/9/2012	692.80	9.90	NM	682.90
	10/1/2012	692.80	12.86	NM	679.94
	7/13/2015	692.80	6.98	NM	685.82
	3/12/2018	692.80	6.72	NM	686.08

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-32A	11/4/2009	690.51	6.33	27.17	684.18
	12/9/2009	690.51	6.26	NM	684.25
	12/28/2009	690.51	7.56	NM	682.95
	1/14/2010	690.51	7.64	NM	682.87
	1/21/2010	690.51	7.20	NM	683.31
	6/15/2010	690.51	5.51	NM	685.00
	9/20/2010	690.51	8.88	NM	681.63
	12/13/2010	690.51	6.70	NM	683.81
	3/7/2011	690.51	5.48	NM	685.03
	6/21/2011	690.51	6.32	NM	684.19
	9/26/2011	690.51	6.27	NM	684.24
	12/12/2011	690.51	6.55	NM	683.96
	4/2/2012	690.51	6.96	NM	683.55
	7/9/2012	690.51	8.28	NM	682.23
	10/1/2012	690.51	7.28	NM	683.23
	7/13/2015	690.51	5.31	NM	685.20
	3/12/2018	690.51	8.40	NM	682.11

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-32B	5/2/2012	690.19	5.96	49.30	684.23
	7/9/2012	690.19	8.15	NM	682.04
	10/1/2012	690.19	6.96	NM	683.23
	7/13/2015	690.19	5.00	NM	685.19
	3/12/2018	690.19	8.10	NM	682.09

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-32C	5/2/2012	690.18	5.96	33.62	684.22
	7/9/2012	690.18	7.94	NM	682.24
	10/1/2012	690.18	6.95	NM	683.23
	7/13/2015	690.18	5.08	NM	685.10
	3/12/2018	690.18	8.12	NM	682.06

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-33A	11/23/2009	703.07	31.53	49.84	671.54
	12/9/2009	703.07	38.56	NM	664.51
	3/14/2010	703.07	18.74	47.70	684.33
	6/15/2010	703.07	20.81	47.70	682.26
	9/20/2010	703.07	26.42	47.70	676.65
	12/13/2010	703.07	21.09	47.70	681.98
	3/7/2011	703.07	19.00	NM	684.07
	6/21/2011	703.07	19.52	NM	683.55
	9/26/2011	703.07	23.88	NM	679.19
			Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-33B	11/23/2009	704.53	22.80	69.75	681.73
	12/9/2009	704.53	24.26	NM	680.27
	3/14/2010	704.53	13.60	69.28	690.93
	6/15/2010	704.53	18.34	69.28	686.19
	9/20/2010	704.53	12.98	69.28	691.55
	12/13/2010	704.53	12.72	69.28	691.81
	3/7/2011	704.53	11.72	NM	692.81
	6/21/2011	704.53	11.64	NM	692.89
	9/26/2011	704.53	12.51	NM	692.02
			Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-33C	11/23/2009	704.68	19.86	34.63	684.82
	12/9/2009	704.68	19.23	NM	685.45
	3/14/2010	704.68	19.22	31.12	685.46
	6/15/2010	704.68	18.26	31.12	686.42
	9/20/2010	704.68	19.50	31.12	685.18
	12/13/2010	704.68	18.25	31.12	686.43
	3/7/2011	704.68	16.72	NM	687.96
	6/21/2011	704.68	17.78	NM	686.90
	9/26/2011	704.68	18.21	NM	686.47
			Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-34A	11/23/2009	688.01	6.01	29.83	682.00
	12/9/2009	688.01	5.26	NM	682.75
	1/13/2010	688.01	5.98	NM	682.03
	1/14/2010	688.01	6.06	NM	681.95
	6/15/2010	688.01	5.01	NM	683.00
	8/30/2010	688.01	7.15	NM	680.86
	9/20/2010	688.01	7.11	NM	680.90
	12/13/2010	688.01	5.93	NM	682.08
	2/18/2011	688.01	6.27	NM	681.74
	3/7/2011	688.01	4.49	NM	683.52
	6/21/2011	688.01	5.41	NM	682.60
	9/26/2011	688.01	6.15	NM	681.86
	12/12/2011	688.01	5.45	NM	682.56
	4/2/2012	688.01	6.12	NM	681.89
	7/9/2012	688.01	6.82	NM	681.19
	10/1/2012	688.01	6.04	NM	681.97
	7/13/2015	688.01	4.46	NM	683.55
	3/12/2018	688.01	6.91	NM	681.10

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-35A	2/24/2010	706.06	10.02	29.24	696.04
	2/25/2010	706.06	10.02	29.00	696.04
	4/22/2010	706.06	16.08	NM	689.98
	6/15/2010	706.06	8.96	NM	697.10
	9/20/2010	706.06	17.74	NM	688.32
	12/13/2010	706.06	14.50	NM	691.56
	3/7/2011	706.06	8.76	NM	697.30
	6/21/2011	706.06	11.06	NM	695.00
	9/26/2011	706.06	10.49	NM	695.57
	12/12/2011	706.06	11.61	NM	694.45
	4/2/2012	706.06	13.27	NM	692.79
	7/9/2012	706.06	17.78	NM	688.28
	10/1/2012	706.06	17.33	NM	688.73
	7/13/2015	706.06	9.70	NM	696.36
	3/12/2018	706.06	16.71	NM	689.35

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-35B	2/24/2010	706.37	10.34	29.65	696.03
	2/25/2010	706.37	10.50	29.65	695.87
	4/22/2010	706.37	16.40	NM	689.97
	6/15/2010	706.37	9.30	NM	697.07
	9/20/2010	706.37	18.06	NM	688.31
	12/13/2010	706.37	15.25	NM	691.12
	3/7/2011	706.37	9.08	NM	697.29
	6/21/2011	706.37	11.39	NM	694.98
	9/26/2011	706.37	10.81	NM	695.56
	12/12/2011	706.37	10.93	NM	695.44
	4/2/2012	706.37	13.58	NM	692.79
	7/9/2012	706.37	18.09	NM	688.28
	10/1/2012	706.37	17.65	NM	688.72
	7/13/2015	706.37	10.03	NM	696.34
	3/12/2018	706.37	17.04	NM	689.33

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-35C	2/24/2010	706.38	43.64	48.24	662.74
	2/25/2010	706.38	42.46	47.60	663.92
	4/22/2010	706.38	33.99	NM	672.39
	4/23/2010	706.38	42.45	NM	663.93
	4/26/2010	706.38	41.87	NM	664.51
	4/27/2010	706.38	41.61	NM	664.77
	6/15/2010	706.38	29.44	NM	676.94
	9/20/2010	706.38	18.89	NM	687.49
	12/13/2010	706.38	16.96	NM	689.42
	3/7/2011	706.38	16.60	NM	689.78
	6/21/2011	706.38	17.06	NM	689.32
	9/26/2011	706.38	18.25	NM	688.13
	12/12/2011	706.38	15.19	NM	691.19
	4/2/2012	706.38	17.06	NM	689.32
	7/9/2012	706.38	19.37	NM	687.01
	10/1/2012	706.38	17.14	NM	689.24
	7/13/2015	706.38	16.55	NM	689.83
	3/12/2018	706.38	15.21	NM	691.17

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-36A	2/24/2010	700.44	17.54	27.21	682.90
	2/25/2010	700.44	17.86	27.21	682.58
	4/22/2010	700.44	18.73	NM	681.71
	6/15/2010	700.44	16.68	NM	683.76
	9/20/2010	700.44	19.33	NM	681.11
	12/13/2010	700.44	18.56	NM	681.88
	3/7/2011	700.44	16.31	NM	684.13
	6/21/2011	700.44	18.45	NM	681.99
	9/26/2011	700.44	17.95	NM	682.49
	12/12/2011	700.44	18.34	NM	682.10
	4/2/2012	700.44	18.62	NM	681.82
	7/9/2012	700.44	19.19	NM	681.25
	10/1/2012	700.44	18.92	NM	681.52
	7/13/2015	700.44	10.70	NM	689.74
	3/12/2018	700.44	19.79	NM	680.65

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-36B	2/24/2010	700.45	17.53	37.36	682.92
	2/25/2010	700.45	17.81	37.70	682.64
	4/22/2010	700.45	18.72	NM	681.73
	6/15/2010	700.45	16.67	NM	683.78
	9/20/2010	700.45	19.33	NM	681.12
	9/24/2010	700.45	19.31	NM	681.14
	10/1/2010	700.45	19.28	NM	681.17
	10/5/2010	700.45	19.28	NM	681.17
	10/12/2010	700.45	19.29	NM	681.16
	10/18/2010	700.45	19.24	NM	681.21
	10/29/2010	700.45	18.26	NM	682.19
	12/10/2010	700.45	18.98	NM	681.47
	12/13/2010	700.45	18.56	NM	681.89
	12/28/2010	700.45	19.00	NM	681.45
	1/3/2011	700.45	18.07	NM	682.38
	1/10/2011	700.45	18.95	NM	681.50
	1/17/2011	700.45	19.01	NM	681.44
	2/18/2011	700.45	18.89	NM	681.56
	2/22/2011	700.45	15.74	NM	684.71
	3/4/2011	700.45	17.64	NM	682.81
	3/7/2011	700.45	16.40	NM	684.05
	3/18/2011	700.45	18.23	NM	682.22
	3/28/2011	700.45	18.75	NM	681.70
	6/21/2011	700.45	18.31	NM	682.14
	9/26/2011	700.45	17.12	NM	683.33
	7/13/2015	700.45	14.30	NM	686.15
	3/12/2018	700.45	20.81	NM	679.64

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-36C	2/24/2010	700.85	53.26	63.30	647.59
	2/25/2010	700.85	53.94	64.00	646.91
	4/22/2010	700.85	42.61	NM	658.24
	4/23/2010	700.85	51.09	NM	649.76
	4/26/2010	700.85	50.22	NM	650.63
	4/27/2010	700.85	49.93	NM	650.92
	4/29/2010	700.85	49.48	NM	651.37
	5/11/2010	700.85	48.22	NM	652.63
	6/1/2010	700.85	44.88	NM	655.97
	6/9/2010	700.85	43.44	NM	657.41
	6/15/2010	700.85	43.98	NM	656.87
	6/24/2010	700.85	43.66	NM	657.19
	7/6/2010	700.85	39.65	NM	661.20
	7/13/2010	700.85	39.13	NM	661.72
	7/20/2010	700.85	38.62	NM	662.23
	8/3/2010	700.85	34.97	NM	665.88
	8/10/2010	700.85	35.45	NM	665.40
	8/17/2010	700.85	35.21	NM	665.64
	8/23/2010	700.85	33.53	NM	667.32
	8/30/2010	700.85	32.09	NM	668.76
	9/20/2010	700.85	31.05	NM	669.80
	9/24/2010	700.85	38.68	NM	662.17
	10/1/2010	700.85	37.66	NM	663.19
	10/5/2010	700.85	37.69	NM	663.16
	10/12/2010	700.85	36.74	NM	664.11
	10/18/2010	700.85	36.31	NM	664.54
	10/29/2010	700.85	34.40	NM	666.45
	12/10/2010	700.85	25.85	NM	675.00
	12/13/2010	700.85	28.03	NM	672.82
	12/28/2010	700.85	32.97	NM	667.88
	1/3/2011	700.85	32.72	NM	668.13
	1/10/2011	700.85	32.24	NM	668.61
	1/17/2011	700.85	31.77	NM	669.08
	2/18/2011	700.85	25.95	NM	674.90
	2/22/2011	700.85	25.33	NM	675.52
	3/4/2011	700.85	24.73	NM	676.12
	3/7/2011	700.85	25.49	NM	675.36
	3/18/2011	700.85	31.42	NM	669.43
	3/28/2011	700.85	32.35	NM	668.50
	6/21/2011	700.85	23.89	NM	676.96
	9/26/2011	700.85	23.21	NM	677.64
	7/13/2015	700.85	16.38	NM	684.47
	3/12/2018	700.85	16.58	NM	684.27

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-37A	2/24/2010	687.29	6.12	19.41	681.17
	2/25/2010	687.29	6.20	19.41	681.09
	4/22/2010	687.29	7.06	NM	680.23
	6/15/2010	687.29	5.81	NM	681.48
	9/20/2010	687.29	7.74	NM	679.55
	12/13/2010	687.29	7.00	NM	680.29
	3/7/2011	687.29	5.59	NM	681.70
	6/21/2011	687.29	6.69	NM	680.60
	9/26/2011	687.29	7.06	NM	680.23
	12/12/2011	687.29	6.50	NM	680.79
	4/2/2012	687.29	6.99	NM	680.30
	7/9/2012	687.29	7.61	NM	679.68
	10/1/2012	687.29	7.36	NM	679.93
	7/13/2015	687.29	5.46	NM	681.83
	3/12/2018	687.29	7.57	NM	679.72

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-37B	2/24/2010	687.23	2.96	34.84	684.27
	2/25/2010	687.23	3.09	34.71	684.14
	4/22/2010	687.23	4.25	NM	682.98
	6/15/2010	687.23	2.46	NM	684.77
	9/20/2010	687.23	5.59	NM	681.64
	12/13/2010	687.23	3.56	NM	683.67
	3/7/2011	687.23	2.39	NM	684.84
	6/21/2011	687.23	3.23	NM	684.00
	9/26/2011	687.23	3.16	NM	684.07
	12/12/2011	687.23	3.39	NM	683.84
	4/2/2012	687.23	3.81	NM	683.42
	7/9/2012	687.23	5.05	NM	682.18
	10/1/2012	687.23	4.09	NM	683.14
	7/13/2015	687.23	2.29	NM	684.94
	3/12/2018	687.23	5.38	NM	681.85

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-37C	9/12/2011	686.88	43.65	48.47	643.23
	9/26/2011	686.88	40.05	NM	646.83
	12/12/2011	686.88	8.91	NM	677.97
	4/2/2012	686.88	2.75	NM	684.13
	7/9/2012	686.88	4.54	NM	682.34
	10/1/2012	686.88	4.96	NM	681.92
	7/13/2015	686.88	3.68	NM	683.20
	3/12/2018	686.88	3.16	NM	683.72

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-38A	4/14/2010	700.99	17.20	34.80	683.79
	4/21/2010	700.99	17.52	NM	683.47
	4/29/2010	700.99	17.08	NM	683.91
	5/17/2010	700.99	16.91	NM	684.08
	6/15/2010	700.99	16.59	NM	684.40
	9/20/2010	700.99	18.18	NM	682.81
	12/13/2010	700.99	17.24	NM	683.75
	3/7/2011	700.99	16.47	NM	684.52
	6/21/2011	700.99	17.02	NM	683.97
	9/26/2011	700.99	16.93	NM	684.06
	12/12/2011	700.99	17.06	NM	683.93
	4/2/2012	700.99	17.29	NM	683.70
	7/9/2012	700.99	17.91	NM	683.08
	10/1/2012	700.99	17.45	NM	683.54
	7/13/2015	700.99	15.63	NM	685.36
	3/12/2018	700.99	17.56	NM	683.43

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-38B	4/14/2010	700.55	16.78	34.83	683.77
	4/21/2010	700.55	17.10	NM	683.45
	4/29/2010	700.55	16.60	NM	683.95
	5/17/2010	700.55	16.48	NM	684.07
	6/15/2010	700.55	16.17	NM	684.38
	8/30/2010	700.55	17.65	NM	682.90
	9/20/2010	700.55	17.72	NM	682.83
	12/13/2010	700.55	16.80	NM	683.75
	2/18/2011	700.55	17.08	NM	683.47
	3/7/2011	700.55	16.04	NM	684.51
	6/21/2011	700.55	16.56	NM	683.99
	9/26/2011	700.55	16.48	NM	684.07
	12/12/2011	700.55	16.60	NM	683.95
	4/2/2012	700.55	16.84	NM	683.71
	7/9/2012	700.55	17.49	NM	683.06
	10/1/2012	700.55	17.01	NM	683.54
	7/13/2015	700.55	15.13	NM	685.42
	3/12/2018	700.55	17.12	NM	683.43

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-38C	4/14/2010	700.20	29.70	67.77	670.50
	4/21/2010	700.20	25.29	NM	674.91
	4/22/2010	700.20	49.28	NM	650.92
	4/23/2010	700.20	46.09	NM	654.11
	4/26/2010	700.20	38.02	NM	662.18
	4/27/2010	700.20	35.37	NM	664.83
	4/29/2010	700.20	31.46	NM	668.74
	5/17/2010	700.20	16.44	NM	683.76
	6/15/2010	700.20	6.16	NM	694.04
	9/20/2010	700.20	6.63	NM	693.57
	12/13/2010	700.20	6.94	NM	693.26
	3/7/2011	700.20	4.01	NM	696.19
	6/21/2011	700.20	2.63	NM	697.57
	9/26/2011	700.20	15.75	NM	684.45
	12/12/2011	700.20	6.28	NM	693.92
	4/2/2012	700.20	2.91	NM	697.29
	7/9/2012	700.20	3.23	NM	696.97
	10/1/2012	700.20	5.31	NM	694.89
	7/13/2015	700.20	2.51	NM	697.69
	3/12/2018	700.20	2.83	NM	697.37

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-38D	4/14/2010	700.37	43.77	50.16	656.60
	4/21/2010	700.37	45.38	NM	654.99
	4/22/2010	700.37	48.15	NM	652.22
	4/23/2010	700.37	47.64	NM	652.73
	4/26/2010	700.37	47.04	NM	653.33
	4/27/2010	700.37	46.75	NM	653.62
	4/29/2010	700.37	46.31	NM	654.06
	5/17/2010	700.37	42.34	NM	658.03
	6/15/2010	700.37	34.84	NM	665.53
	9/20/2010	700.37	20.02	NM	680.35
	12/13/2010	700.37	18.04	NM	682.33
	3/7/2011	700.37	17.17	NM	683.20
	6/21/2011	700.37	17.50	NM	682.87
	9/26/2011	700.37	18.00	NM	682.37
	12/12/2011	700.37	17.96	NM	682.41
	4/2/2012	700.37	16.95	NM	683.42
	7/9/2012	700.37	18.11	NM	682.26
	10/1/2012	700.37	18.41	NM	681.96
	7/13/2015	700.37	16.40	NM	683.97
	3/12/2018	700.37	15.71	NM	684.66

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-39A	4/14/2010	694.06	31.75	37.68	662.31
	4/19/2010	694.06	35.03	NM	659.03
	4/21/2010	694.06	35.03	NM	659.03
	4/22/2010	694.06	37.18	NM	656.88
	4/23/2010	694.06	36.73	NM	657.33
	4/26/2010	694.06	35.33	NM	658.73
	4/27/2010	694.06	34.69	NM	659.37
	5/11/2010	694.06	30.59	NM	663.47
	6/1/2010	694.06	28.78	NM	665.28
	6/9/2010	694.06	29.19	NM	664.87
	6/15/2010	694.06	30.47	NM	663.59
	6/24/2010	694.06	30.35	NM	663.71
	7/6/2010	694.06	28.22	NM	665.84
	7/13/2010	694.06	27.29	NM	666.77
	7/20/2010	694.06	25.73	NM	668.33
	8/3/2010	694.06	25.69	NM	668.37
	8/10/2010	694.06	24.07	NM	669.99
	8/17/2010	694.06	26.81	NM	667.25
	8/23/2010	694.06	23.25	NM	670.81
	9/20/2010	694.06	21.30	NM	672.76
	10/1/2010	694.06	23.13	NM	670.93
	10/5/2010	694.06	25.35	NM	668.71
	10/12/2010	694.06	27.95	NM	666.11
	10/18/2010	694.06	28.04	NM	666.02
	10/29/2010	694.06	27.95	NM	666.11
	12/13/2010	694.06	15.27	NM	678.79
	12/28/2010	694.06	15.95	NM	678.11
	1/17/2011	694.06	9.50	NM	684.56
	3/7/2011	694.06	9.30	NM	684.76
	3/18/2011	694.06	13.75	NM	680.31
	6/21/2011	694.06	10.90	NM	683.16
	9/26/2011	694.06	19.17	NM	674.89
	7/13/2015	694.06	5.94	NM	688.12
	3/12/2018	694.06	6.18	NM	687.88

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-39B	4/14/2010	693.96	10.14	28.77	683.82
	4/21/2010	693.96	10.46	NM	683.50
	6/15/2010	693.96	9.62	NM	684.34
	9/20/2010	693.96	11.00	NM	682.96
	12/13/2010	693.96	10.21	NM	683.75
	3/7/2011	693.96	9.50	NM	684.46
	6/21/2011	693.96	9.98	NM	683.98
	9/26/2011	693.96	9.90	NM	684.06
	12/12/2011	693.96	9.97	NM	683.99
	4/2/2012	693.96	10.21	NM	683.75
	7/9/2012	693.96	10.77	NM	683.19
	10/1/2012	693.96	10.32	NM	683.64
	7/13/2015	696.96	9.07	NM	687.89
	3/14/2018	696.96	10.53	NM	686.43

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-40A	4/14/2010	694.36	3.78	48.30	690.58
	4/21/2010	694.36	4.12	NM	690.24
	6/15/2010	694.36	3.75	NM	690.61
	9/20/2010	694.36	1.36	NM	693.00
	12/13/2010	694.36	0.00	NM	694.36
	2/18/2011	694.36	2.02	NM	692.34
	3/7/2011	694.36	2.09	NM	692.27
	6/21/2011	694.36	3.32	NM	691.04
	9/26/2011	694.36	0.03	NM	694.33
	12/12/2011	694.36	0.00	NM	694.36
	4/2/2012	694.36	3.20	NM	691.16
	7/9/2012	694.36	3.49	NM	690.87
	10/1/2012	694.36	0.00	NM	694.36
	7/13/2015	694.36	2.41	NM	691.95
	3/12/2018	694.36	0.00	NM	694.36

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-40B	4/14/2010	694.77	4.00	29.12	690.77
	4/21/2010	694.77	4.93	NM	689.84
	6/15/2010	694.77	3.70	NM	691.07
	9/20/2010	694.77	7.63	NM	687.14
	12/13/2010	694.77	4.75	NM	690.02
	2/18/2011	694.77	4.95	NM	689.82
	3/7/2011	694.77	3.55	NM	691.22
	6/21/2011	694.77	4.33	NM	690.44
	9/26/2011	694.77	5.64	NM	689.13
	12/12/2011	694.77	4.36	NM	690.41
	4/2/2012	694.77	4.18	NM	690.59
	7/9/2012	694.77	7.05	NM	687.72
	10/1/2012	694.77	4.78	NM	689.99
	7/13/2015	694.77	3.50	NM	691.27
	3/12/2018	694.77	3.84	NM	690.93

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-40C	4/14/2010	694.78	3.53	16.11	691.25
	4/22/2010	694.78	4.34	NM	690.44
	6/15/2010	694.78	3.02	NM	691.76
	8/30/2010	694.78	7.14	NM	687.64
	9/20/2010	694.78	7.40	NM	687.38
	12/13/2010	694.78	4.15	NM	690.63
	12/18/2011	694.78	4.36	NM	690.42
	3/7/2011	694.78	3.05	NM	691.73
	6/21/2011	694.78	3.76	NM	691.02
	9/26/2011	694.78	5.59	NM	689.19
	12/12/2011	694.78	4.06	NM	690.72
	4/2/2012	694.78	3.46	NM	691.32
	7/9/2012	694.78	7.27	NM	687.51
	10/1/2012	694.78	3.26	NM	691.52
	7/13/2015	694.78	2.92	NM	691.86
	3/12/2018	694.78	3.40	NM	691.38

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-41A	12/13/2010	702.57	18.57	36.04	684.00
	3/7/2011	702.57	17.83	NM	684.74
	6/21/2011	702.57	18.51	NM	684.06
	9/26/2011	702.57	18.25	NM	684.32
	12/12/2011	702.57	18.44	NM	684.13
	4/2/2012	702.57	18.77	NM	683.80
	7/9/2012	702.57	19.32	NM	683.25
	10/1/2012	702.57	18.85	NM	683.72
	7/13/2015	702.57	14.70	NM	687.87
	3/16/2018	702.57	19.21	NM	683.36

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-42A	12/13/2010	696.11	26.68	35.44	669.43
	3/7/2011	696.11	12.66	NM	683.45
	6/21/2011	696.11	13.61	NM	682.50
	9/26/2011	696.11	10.80	NM	685.31
	12/12/2011	696.11	10.20	NM	685.91
	4/2/2012	696.11	11.05	NM	685.06
	7/9/2012	696.11	11.35	NM	684.76
	10/1/2012	696.11	6.51	NM	689.60
	7/13/2015	696.11	17.80	NM	678.31
	3/12/2018	696.11	10.15	NM	685.96

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-42B	12/13/2010	696.06	36.76	45.41	659.30
	3/7/2011	696.06	22.21	NM	673.85
	6/21/2011	696.06	14.92	NM	681.14
	9/26/2011	696.06	16.16	NM	679.90
	12/12/2011	696.06	15.86	NM	680.20
	4/2/2012	696.06	12.97	NM	683.09
	7/9/2012	696.06	14.74	NM	681.32
	10/1/2012	696.06	1.73	NM	694.33
	7/13/2015	696.06	14.28	NM	681.78
	3/12/2018	696.06	7.33	NM	688.73

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-43A	12/13/2010	690.93	7.13	28.87	683.80
	3/7/2011	690.93	5.89	NM	685.04
	6/21/2011	690.93	6.78	NM	684.15
	9/26/2011	690.93	6.75	NM	684.18
	12/12/2011	690.93	6.93	NM	684.00
	4/2/2012	690.93	7.35	NM	683.58
	7/9/2012	690.93	8.65	NM	682.28
	10/1/2012	690.93	7.64	NM	683.29
	7/13/2015	690.93	5.57	NM	685.36
	3/12/2018	690.93	8.52	NM	682.41

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-44A	12/13/2010	704.46	10.16	27.92	694.30
	3/7/2011	704.46	5.77	NM	698.69
	6/21/2011	704.46	7.58	NM	696.88
	9/26/2011	704.46	9.29	NM	695.17
	12/12/2011	704.46	7.27	NM	697.19
	4/2/2012	704.46	10.70	NM	693.76
	7/9/2012	704.46	12.56	NM	691.90
	10/1/2012	704.46	11.06	NM	693.40
	7/13/2015	704.46	6.84	NM	697.62
	3/12/2018	704.46	12.04	NM	692.42

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-45A	12/13/2010	700.80	50.24	58.70	650.56
	3/7/2011	700.80	30.34	NM	670.46
	6/21/2011	700.80	20.83	NM	679.97
	9/26/2011	700.80	19.60	NM	681.20
	12/12/2011	700.80	18.23	NM	682.57
	4/2/2012	700.80	17.69	NM	683.11
	7/9/2012	700.80	18.82	NM	681.98
	10/1/2012	700.80	24.56	NM	676.24
	7/13/2015	700.80	14.70	NM	686.10
	3/12/2018	700.80	12.89	NM	687.91

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-45B	12/13/2010	700.76	33.58	42.66	667.18
	3/7/2011	700.76	27.19	NM	673.57
	6/21/2011	700.76	24.35	NM	676.41
	9/26/2011	700.76	22.26	NM	678.50
	12/12/2011	700.76	20.83	NM	679.93
	4/2/2012	700.76	22.11	NM	678.65
	7/9/2012	700.76	23.05	NM	677.71
	10/1/2012	700.76	22.42	NM	678.34
	7/13/2015	700.76	17.80	NM	682.96
	3/12/2018	700.76	17.85	NM	682.91

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-45C	12/13/2010	700.59	18.10	24.17	682.49
	3/7/2011	700.59	15.15	NM	685.44
	6/21/2011	700.59	17.95	NM	682.64
	9/26/2011	700.59	17.64	NM	682.95
	12/12/2011	700.59	17.85	NM	682.74
	4/2/2012	700.59	18.32	NM	682.27
	7/9/2012	700.59	19.05	NM	681.54
	10/1/2012	700.59	18.71	NM	681.88
	7/13/2015	700.59	14.28	NM	686.31
	3/12/2018	700.59	19.48	NM	681.11

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-46A	12/13/2010	688.81	5.25	38.06	683.56
	3/7/2011	688.81	4.83	NM	683.98
	6/21/2011	688.81	4.90	NM	683.91
	9/26/2011	688.81	4.85	NM	683.96
	12/12/2011	688.81	5.04	NM	683.77
	4/2/2012	688.81	5.48	NM	683.33
	7/9/2012	688.81	6.72	NM	682.09
	10/1/2012	688.81	5.75	NM	683.06
	7/13/2015	688.81	3.88	NM	684.93
	3/12/2018	688.81	7.11	NM	681.70

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-47A	12/13/2010	683.38	4.60	32.60	678.78
	3/7/2011	683.38	4.32	NM	679.06
	6/21/2011	683.38	4.59	NM	678.79
	9/26/2011	683.38	4.57	NM	678.81
	12/12/2011	683.38	4.24	NM	679.14
	4/2/2012	683.38	4.64	NM	678.74
	7/9/2012	683.38	6.00	NM	677.38
	10/1/2012	683.38	4.76	NM	678.62
	7/13/2015	683.38	4.01	NM	679.37
	3/28/2018	683.38	4.95	NM	678.43

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-48A	1/11/2011	708.53	47.75	71.38	660.78
	6/21/2011	708.53	40.28	NM	668.25
	9/26/2011	708.53	32.06	NM	676.47
	7/13/2015	708.53	22.26	NM	686.27
	3/12/2018	708.53	24.36	NM	684.17

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-48B	1/11/2011	708.52	28.50	52.37	680.02
	6/21/2011	708.52	25.36	NM	683.16
	9/26/2011	708.52	25.13	NM	683.39
	12/12/2011	708.52	25.53	NM	682.99
	4/2/2012	708.52	25.44	NM	683.08
	7/9/2012	708.52	26.17	NM	682.35
	10/1/2012	708.52	26.48	NM	682.04
	7/13/2015	708.52	22.15	NM	686.37
	3/12/2018	708.52	26.82	NM	681.70

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-49A	8/16/2011	707.93	52.60	64.34	655.33
	9/26/2011	707.93	32.45	NM	675.48
	12/12/2011	707.93	12.69	NM	695.24
	4/2/2012	707.93	11.18	NM	696.75
	7/9/2012	707.93	12.74	NM	695.19
	10/1/2012	707.93	12.07	NM	695.86
	7/13/2015	707.93	12.68	NM	695.25
	6/13/2017	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-49B	8/16/2011	707.90	13.53	37.47	694.37
	9/26/2011	707.90	11.86	NM	696.04
	12/12/2011	707.90	9.30	NM	698.60
	4/2/2012	707.90	10.60	NM	697.30
	7/9/2012	707.90	12.96	NM	694.94
	10/1/2012	707.90	11.45	NM	696.45
	7/13/2015	707.90	9.20	NM	698.70
	6/13/2017	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-49C	8/16/2011	708.01	18.37	24.59	689.64
	9/26/2011	708.01	15.35	NM	692.66
	12/12/2011	708.01	9.71	NM	698.30
	4/2/2012	708.01	10.82	NM	697.19
	7/9/2012	708.01	13.10	NM	694.91
	10/1/2012	708.01	12.13	NM	695.88
	9/13/2013		Well Decommissioned		

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-50A	8/17/2011	697.53	63.90	71.45	633.63
	9/26/2011	697.53	47.55	NM	649.98
	12/12/2011	697.53	22.31	NM	675.22
	4/2/2012	697.53	5.09	NM	692.44
	7/9/2012	697.53	16.49	NM	681.04
	10/1/2012	697.53	18.89	NM	678.64
	7/13/2015	697.53	11.91	NM	685.62
	3/12/2018	697.53	12.47	NM	685.06

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-50B	8/17/2011	697.54	13.96	NM	683.58
	9/26/2011	697.54	13.07	NM	684.47
	12/12/2011	697.54	12.95	NM	684.59
	4/2/2012	697.54	13.37	NM	684.17
	7/9/2012	697.54	14.03	NM	683.51
	10/1/2012	697.54	13.45	NM	684.09
	7/13/2015	697.54	10.84	NM	686.70
	3/12/2018	697.54	14.22	NM	683.32

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-51A	8/17/2011	694.59	14.94	NM	679.65
	9/26/2011	694.59	9.56	NM	685.03
	7/13/2015	694.59	8.28	NM	686.31
	3/12/2018	694.59	11.70	NM	682.89

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-51B	8/17/2011	694.66	13.86	31.30	680.80
	9/26/2011	694.66	12.93	NM	681.73
	12/12/2011	694.66	12.17	NM	682.49
	4/2/2012	694.66	12.85	NM	681.81
	7/9/2012	694.66	13.53	NM	681.13
	10/1/2012	694.66	12.75	NM	681.91
	7/13/2015	694.66	10.98	NM	683.68
	3/12/2018	694.66	13.66	NM	681.00

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-52A	8/17/2011	709.63	27.34	47.27	682.29
	9/26/2011	709.63	NM	NM	NA
	12/12/2011	709.63	25.65	NM	683.98
	4/2/2012	709.63	26.03	NM	683.60
	7/9/2012	709.63	27.39	NM	682.24
	10/1/2012	709.63	26.37	NM	683.26
	7/13/2015	709.63	24.56	NM	685.07
	3/12/2018	709.63	27.46	NM	682.17

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-53A	9/12/2011	725.77	79.49	98.64	646.28
	9/26/2011	725.77	80.33	NM	645.44
	12/12/2011	725.77	53.91	NM	671.86
	4/2/2012	725.77	42.80	NM	682.97
	7/9/2012	725.77	40.75	NM	685.02
	10/1/2012	725.77	45.60	NM	680.17
	7/13/2015	725.77	31.35	NM	694.42
	3/15/2018	725.77	34.14	NM	691.63

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-53B	9/12/2011	725.76	61.52	76.63	664.24
	9/26/2011	725.76	61.81	NM	663.95
	12/12/2011	725.76	55.06	NM	670.70
	4/2/2012	725.76	60.81	NM	664.95
	7/9/2012	725.76	59.91	NM	665.85
	10/1/2012	725.76	61.63	NM	664.13
	7/13/2015	725.76	51.33	NM	674.43
	3/15/2018	725.76	39.45	NM	686.31

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-54A	5/2/2012	687.77	35.83	45.06	651.94
	7/13/2015	687.77	2.63	NM	685.14
	3/12/2018	687.77	4.39	NM	683.38

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-54B	5/2/2012	687.78	3.58	27.36	684.20
	7/9/2012	687.78	5.42	NM	682.36
	10/1/2012	687.78	4.50	NM	683.28
	7/13/2015	687.78	2.48	NM	685.30
	3/12/2018	687.78	5.35	NM	682.43

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-55A	5/2/2012	689.69	31.52	41.00	658.17
	7/9/2012	689.69	7.98	NM	681.71
	10/1/2012	689.69	5.44	NM	684.25
	7/13/2015	689.69	3.60	NM	686.09
	3/12/2018	689.69	5.17	NM	684.52

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-55B	5/2/2012	689.66	5.96	25.25	683.70
	7/9/2012	689.66	9.47	NM	680.19
	10/1/2012	689.66	6.41	NM	683.25
	7/13/2015	689.66	6.72	NM	682.94
	3/12/2018	689.66	7.24	NM	682.42

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-56A	5/2/2012	686.53	26.14	52.20	660.39
	7/9/2012	686.53	5.90	NM	680.63
	10/1/2012	686.53	5.01	NM	681.52
	7/13/2015	686.53	3.75	NM	682.78
	3/12/2018	686.53	4.33	NM	682.20

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW-56B	5/2/2012	686.58	3.10	36.36	683.48
	7/9/2012	686.58	5.94	NM	680.64
	10/1/2012	686.58	3.69	NM	682.89
	7/13/2015	686.58	1.76	NM	684.82
	3/12/2018	686.58	5.25	NM	681.33

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
OW-1	11/17/1994	695.39	2.90	9.81	692.49
	11/14/1995	695.39	2.84	9.81	692.55
	4/30/1996	695.39	NM	9.81	NM
	5/18/2000	695.39	3.34	9.81	692.05
	8/14/2000	695.39	2.80	9.81	692.59
	11/13/2000	695.39	2.85	9.81	692.54
	2/1/2001	695.39	2.81	9.81	692.58
	6/21/2001	695.39	4.30	9.81	691.09
	12/11/2001	695.39	2.98	9.81	692.41
	8/11/2003	695.39	4.92	9.81	690.47
	10/29/2003	695.39	3.21	9.81	692.18
	2/18/2004	695.39	2.86	9.81	692.53
	9/9/2004	695.39	4.75	9.81	690.64
	7/31/2006	695.39	6.13	9.81	689.26
	7/24/2007	695.39	5.42	9.81	689.97
	11/30/2007	695.39	4.33	NM	691.06
	6/8/2008	695.39	2.61	NM	692.78
	9/9/2008	695.39	7.58	NM	687.81
	11/17/2008	695.39	5.51	NM	689.88
	2/5/2009	695.39	3.72	NM	691.67
	12/9/2009	695.39	3.04	NM	692.35
	6/15/2010	695.39	2.53	NM	692.86
	9/20/2010	695.39	9.07	NM	686.32
	3/7/2011	695.39	2.69	NM	692.70
	6/21/2011	695.39	2.72	NM	692.67
	9/26/2011	695.39	5.55	NM	689.84
	11/1/2011	695.39	3.55	9.68	691.84
	12/12/2011	695.39	2.90	NM	692.49
	4/2/2012	695.39	3.26	NM	692.13
	7/9/2012	695.39	8.56	NM	686.83
	10/1/2012	695.39	4.48	NM	690.91
	7/13/2015	695.39	2.52	NM	692.87
	3/22/2018	695.39	3.40	NM	691.99

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
OW-2	11/17/1994	695.03	3.12	7.20	691.91
	11/14/1995	695.03	3.23	7.20	691.80
	4/30/1996	695.03	NM	7.20	NM
	5/18/2000	695.03	3.27	7.20	691.76
	8/14/2000	695.03	3.10	7.20	691.93
	11/13/2000	695.03	3.02	7.20	692.01
	2/1/2001	695.03	3.13	7.20	691.90
	6/21/2001	695.03	3.49	7.20	691.54
	12/11/2001	695.03	3.10	7.20	691.93
	8/11/2003	695.03	4.02	7.20	691.01
	10/29/2003	695.03	3.16	7.20	691.87
	2/18/2004	695.03	3.18	7.20	691.85
	9/9/2004	695.03	4.00	7.20	691.03
	7/31/2006	695.03	5.65	7.20	689.38
	7/24/2007	695.03	4.65	10.20	690.38
	11/30/2007	695.03	3.87	NM	691.16
	6/8/2008	695.03	3.07	NM	691.96
	9/9/2008	695.03	7.28	NM	687.75
	11/17/2008	695.03	3.68	NM	691.35
	2/5/2009	695.03	10.20	NM	684.83
	12/9/2009	695.03	3.13	NM	691.90
	6/15/2010	695.03	3.04	NM	691.99
	9/20/2010	695.03	8.35	NM	686.68
	3/7/2011	695.03	3.14	NM	691.89
	6/21/2011	695.03	3.14	NM	691.89
	9/26/2011	695.03	3.73	NM	691.30
	11/1/2011	695.03	3.48	10.15	691.55
	12/12/2011	695.03	3.19	NM	691.84
	4/2/2012	695.03	3.23	NM	691.80
	7/9/2012	695.03	7.97	NM	687.06
	10/1/2012	695.03	3.43	NM	691.60
	7/13/2015	695.03	3.06	NM	691.97
	3/12/2018	695.03	3.23	NM	691.80

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
OW-3	11/17/1994	694.72	2.75	8.90	691.97
	11/14/1995	694.72	2.83	8.90	691.89
	4/30/1996	694.72	NM	8.90	NM
	5/18/2000	694.72	2.84	8.90	691.88
	8/14/2000	694.72	2.93	8.90	691.79
	11/13/2000	694.72	2.83	8.90	691.89
	2/1/2001	694.72	2.72	8.90	692.00
	6/21/2001	694.72	3.25	8.90	691.47
	12/11/2001	694.72	2.74	8.90	691.98
	8/11/2003	694.72	3.60	8.90	691.12
	10/29/2003	694.72	2.75	8.90	691.97
	2/18/2004	694.72	3.60	8.90	691.12
	9/9/2004	694.72	3.57	8.90	691.15
	7/31/2006	694.72	5.24	8.90	689.48
	7/24/2007	694.72	4.16	9.95	690.56
	11/30/2007	694.72	3.32	9.95	691.40
	6/8/2008	694.72	2.73	9.95	691.99
	9/9/2008	694.72	6.85	9.95	687.87
	11/17/2008	694.72	3.07	9.95	691.65
	2/5/2009	694.72	9.95	NM	684.77
	12/9/2009	694.72	2.73	NM	691.99
	6/15/2010	694.72	2.68	NM	692.04
	9/20/2010	694.72	7.85	NM	686.87
	3/7/2011	694.72	2.76	NM	691.96
	6/21/2011	694.72	2.75	NM	691.97
	9/26/2011	694.72	4.06	NM	690.66
	11/1/2011	694.72	3.22	8.80	691.50
	12/12/2011	694.72	2.92	NM	691.80
	4/2/2012	694.72	2.87	NM	691.85
	7/9/2012	694.72	7.55	NM	687.17
	10/1/2012	694.72	3.08	NM	691.64
	7/13/2015	694.72	2.67	NM	692.05
	3/12/2018	694.72	3.23	NM	691.49

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-1	11/14/1995	692.35	5.09	9.16	687.26
	4/30/1996	692.35	4.64	9.16	687.71
	5/18/2000	692.35	9.23	9.16	683.12
	8/14/2000	692.35	5.82	9.16	686.53
	11/13/2000	692.35	4.89	9.16	687.46
	2/1/2001	692.35	4.92	9.16	687.43
	6/21/2001	692.35	6.89	9.16	685.46
	12/11/2001	692.35	5.23	9.16	687.12
	8/11/2003	692.35	6.93	9.16	685.42
	10/29/2003	692.35	5.85	9.16	686.50
	2/18/2004	692.35	5.98	9.16	686.37
	9/9/2004	692.35	6.96	9.16	685.39
	7/31/2006	692.35	7.02	9.16	685.33
	8/15/2006	Well Decommissioned			

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-2	11/14/1995	692.98	5.50	8.50	687.48
	4/30/1996	692.98	4.87	8.50	688.11
	5/18/2000	692.98	6.18	8.50	686.80
	8/14/2000	692.98	6.13	8.50	686.85
	11/13/2000	692.98	5.10	8.50	687.88
	2/1/2001	692.98	4.92	8.50	688.06
	6/21/2001	692.98	6.44	8.50	686.54
	12/11/2001	692.98	5.45	8.50	687.53
	8/11/2003	692.98	6.50	8.50	686.48
	10/29/2003	692.98	5.70	8.50	687.28
	2/18/2004	692.98	5.51	8.50	687.47
	9/9/2004	692.98	6.57	8.50	686.41
	7/31/2006	692.98	6.43	8.50	686.55
	7/24/2007	692.98	6.39	8.40	686.59
	11/30/2007	692.98	5.99	NM	686.99
	6/8/2008	692.98	4.88	NM	688.10
	9/9/2008	692.98	6.73	NM	686.25
	11/17/2008	692.98	6.05	NM	686.93
	2/5/2009	692.98	6.16	NM	686.82
	3/3/2009	692.98	5.66	NM	687.32
	3/11/2009	692.98	5.78	NM	687.20
	3/17/2009	692.98	5.96	NM	687.02
	3/25/2009	692.98	5.10	NM	687.88
	3/31/2009	692.98	5.34	NM	687.64
	4/20/2009	692.98	5.36	NM	687.62
	4/29/2009	692.98	5.71	NM	687.27
	5/6/2009	692.98	5.73	NM	687.25
	5/11/2009	692.98	5.56	NM	687.42
	5/20/2009	692.98	5.33	NM	687.65
	5/27/2009	692.98	5.99	NM	686.99
	6/8/2009	692.98	6.35	NM	686.63
	6/15/2009	692.98	5.46	NM	687.52
	6/25/2009	692.98	4.88	NM	688.10
	6/30/2009	692.98	6.03	NM	686.95
	7/31/2009	692.98	6.81	NM	686.17
	8/13/2009	692.98	6.24	NM	686.74
	8/26/2009	692.98	6.60	NM	686.38
	10/2/2009	692.98	5.91	NM	687.07
	10/6/2009	692.98	6.12	NM	686.86
	12/9/2009	692.98	5.20	NM	687.78
	12/18/2009	692.98	5.25	NM	687.73
	1/26/2010	692.98	4.98	NM	688.00
	2/2/2010	692.98	5.85	NM	687.13
	3/1/2010	692.98	5.52	NM	687.46
	6/15/2010	692.98	3.42	NM	689.56
	9/20/2010	692.98	6.66	NM	686.32
	3/7/2011	692.98	3.83	NM	689.15
	6/21/2011	692.98	5.35	NM	687.63
	9/26/2011	692.98	5.89	NM	687.09
	11/1/2011	692.98	5.89	8.40	687.09
	12/12/2011	692.98	5.30	NM	687.68
	4/2/2012	692.98	5.86	NM	687.12
	7/9/2012	692.98	6.71	NM	686.27
	10/1/2012	692.98	6.13	NM	686.85
	7/13/2015	692.98	4.69	NM	688.29
	3/12/2018	692.98	3.75	NM	689.23

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-3	11/14/1995	694.04	6.30	8.65	687.74
	4/30/1996	694.04	4.22	8.65	689.82
	5/18/2000	694.04	6.69	8.65	687.35
	8/14/2000	694.04	6.64	8.65	687.40
	11/13/2000	694.04	6.19	8.65	687.85
	2/1/2001	694.04	5.66	8.65	688.38
	6/21/2001	694.04	7.04	8.65	687.00
	12/11/2001	694.04	6.32	8.65	687.72
	8/11/2003	694.04	7.25	8.65	686.79
	10/29/2003	694.04	6.24	8.65	687.80
	2/18/2004	694.04	6.12	8.65	687.92
	9/9/2004	694.04	7.33	8.65	686.71
	7/31/2006	694.04	7.32	8.65	686.72
	7/24/2007	694.04	7.28	8.65	686.76
	11/30/2007	694.04	6.31	NM	687.73
	6/8/2008	694.04	5.92	NM	688.12
	9/9/2008	694.04	7.78	NM	686.26
	11/17/2008	694.04	7.74	NM	686.30
	2/5/2009	694.04	6.44	NM	687.60
	2/25/2009	694.04	6.13	NM	687.91
	3/3/2009	694.04	6.06	NM	687.98
	3/11/2009	694.04	6.19	NM	687.85
	3/17/2009	694.04	6.34	NM	687.70
	3/25/2009	694.04	5.89	NM	688.15
	3/31/2009	694.04	5.94	NM	688.10
	4/20/2009	694.04	5.91	NM	688.13
	4/29/2009	694.04	6.18	NM	687.86
	5/6/2009	694.04	6.26	NM	687.78
	5/11/2009	694.04	6.48	NM	687.56
	5/20/2009	694.04	6.09	NM	687.95
	5/27/2009	694.04	6.46	NM	687.58
	6/8/2009	694.04	6.83	NM	687.21
	6/15/2009	694.04	6.29	NM	687.75
	6/25/2009	694.04	5.92	NM	688.12
	6/30/2009	694.04	6.82	NM	687.22
	7/31/2009	694.04	6.71	NM	687.33
	8/13/2009	694.04	6.74	NM	687.30
	8/26/2009	694.04	7.43	NM	686.61
	10/2/2009	694.04	6.07	NM	687.97
	10/6/2009	694.04	6.55	NM	687.49
	12/9/2009	694.04	5.75	NM	688.29
	12/18/2009	694.04	5.78	NM	688.26
	1/26/2010	694.04	5.44	NM	688.60
	2/3/2010	694.04	6.14	NM	687.90
	3/1/2010	694.04	5.99	NM	688.05
	6/15/2010	694.04	4.82	NM	689.22
	9/20/2010	694.04	8.00	NM	686.04
	3/7/2011	694.04	4.48	NM	689.56
	6/21/2011	694.04	6.08	NM	687.96
	9/26/2011	694.04	7.09	NM	686.95
	11/1/2011	694.04	6.18	8.50	687.86
	12/9/2011	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-4	11/14/1995	695.06	6.54	8.65	688.52
	4/30/1996	695.06	3.75	8.65	691.31
	5/18/2000	695.06	7.12	8.65	687.94
	8/4/2000	695.06	7.35	8.65	687.71
	11/13/2000	695.06	6.05	8.65	689.01
	2/1/2001	695.06	5.59	8.65	689.47
	6/21/2001	695.06	7.31	8.65	687.75
	12/11/2001	695.06	6.55	8.65	688.51
	8/11/2003	695.06	7.80	8.65	687.26
	10/29/2003	695.06	6.11	8.65	688.95
	2/18/2004	695.06	6.85	8.65	688.21
	9/9/2004	695.06	6.69	8.65	688.37
	7/31/2006	695.06	7.76	8.65	687.30
	7/24/2007	695.06	8.32	6.00	686.74
	11/30/2007	695.06	6.00	NM	689.06
	6/8/2008	695.06	5.67	NM	689.39
	9/9/2008	695.06	7.40	NM	687.66
	11/17/2008	695.06	6.85	NM	688.21
	2/5/2009	695.06	7.11	NM	687.95
	12/9/2009	695.06	6.29	NM	688.77
	6/15/2010	695.06	5.43	NM	689.63
	8/30/2010	695.06	7.34	NM	687.72
	9/20/2010	695.06	6.98	NM	688.08
	2/18/2011	695.06	6.74	NM	688.32
	3/7/2011	695.06	4.96	NM	690.10
	6/21/2011	695.06	6.55	NM	688.51
	9/26/2011	695.06	7.77	NM	687.29
	11/1/2011	695.06	5.96	8.51	689.10
	12/12/2011	695.06	6.07	NM	688.99
	4/2/2012	695.06	6.60	NM	688.46
	7/9/2012	695.06	7.23	NM	687.83
	10/1/2012	695.06	6.48	NM	688.58
	7/13/2015	695.06	4.04	NM	691.02
	3/12/2018	695.06	6.71	NM	688.35

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-5	11/14/1995	696.81	7.25	8.90	689.56
	4/30/1996	696.81	5.53	8.90	691.28
	5/18/2000	696.81	7.52	8.90	689.29
	8/4/2000	696.81	7.62	8.90	689.19
	11/13/2000	696.81	6.46	8.90	690.35
	2/1/2001	696.81	6.04	8.90	690.77
	6/21/2001	696.81	7.78	8.90	689.03
	12/11/2001	696.81	6.95	8.90	689.86
	8/11/2003	696.81	8.05	8.90	688.76
	10/29/2003	696.81	6.97	8.90	689.84
	2/18/2004	696.81	7.08	8.90	689.73
	9/9/2004	696.81	8.07	8.90	688.74
	7/31/2006	696.81	8.25	8.90	688.56
	7/24/2007	696.81	8.29	9.80	688.52
	11/30/2007	696.81	7.11	NM	689.70
	6/8/2008	696.81	5.38	NM	691.43
	9/9/2008	696.81	8.35	NM	688.46
	11/17/2008	696.81	7.81	NM	689.00
	2/5/2009	696.81	7.56	NM	689.25
	12/9/2009	696.81	7.12	NM	689.69
	6/15/2010	696.81	6.67	NM	690.14
	3/7/2011	696.81	6.05	NM	690.76
	6/21/2011	696.81	7.23	NM	689.58
	9/26/2011	696.81	7.62	NM	689.19
	11/1/2011	696.81	7.23	9.49	689.58
	12/12/2011	696.81	6.94	NM	689.87
	4/2/2012	696.81	7.27	NM	689.54
	7/9/2012	696.81	Dry	9.49	NA
	10/1/2012	696.81	7.35	NM	689.46
	7/13/2015	696.81	5.18	NM	691.63
	3/12/2018	696.81	6.89	NM	689.92

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
MW- P-6	11/14/1995	693.33	7.58	9.80	685.75
	4/30/1996	693.33	6.92	9.80	686.41
	5/18/2000	693.33	7.58	9.80	685.75
	8/14/2000	693.33	7.63	9.80	685.70
	11/13/2000	693.33	7.05	9.80	686.28
	2/1/2001	693.33	5.56	9.80	687.77
	6/21/2001	693.33	7.64	9.80	685.69
	12/11/2001	693.33	7.45	9.80	685.88
	8/11/2003	693.33	7.61	9.80	685.72
	10/29/2003	693.33	7.05	9.80	686.28
	2/18/2004	693.33	7.22	9.80	686.11
	9/9/2004	693.33	6.96	9.80	686.37
	7/31/2006	693.33	7.02	9.16	686.31
	8/15/2006	Well Decommissioned			

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-1	12/28/2009	692.10	4.61	47.09	687.49
	1/6/2010	692.10	5.39	NM	686.71
	1/11/2010	692.10	5.48	NM	686.62
	1/18/2010	692.10	5.41	NM	686.69
	1/20/2010	692.10	5.23	NM	686.87
	1/25/2010	692.10	4.07	NM	688.03
	2/1/2010	692.10	5.33	NM	686.77
	2/22/2010	692.10	4.40	NM	687.70
	3/8/2010	692.10	5.24	NM	686.86
	3/11/2010	692.10	5.24	NM	686.86
	4/16/2010	692.10	5.23	NM	686.87
	4/26/2010	692.10	3.62	NM	688.48
	5/5/2010	692.10	4.56	NM	687.54
	5/11/2010	692.10	4.18	NM	687.92
	6/1/2010	692.10	5.12	NM	686.98
	6/9/2010	692.10	4.98	NM	687.12
	6/15/2010	692.10	3.77	NM	688.33
	6/24/2010	692.10	5.13	NM	686.97
	7/6/2010	692.10	5.74	NM	686.36
	7/13/2010	692.10	5.89	NM	686.21
	7/20/2010	692.10	5.34	NM	686.76
	8/3/2010	692.10	6.02	NM	686.08
	8/10/2010	692.10	6.17	NM	685.93
	8/17/2010	692.10	7.31	NM	684.79
	8/23/2010	692.10	6.08	NM	686.02
	8/30/2010	692.10	6.39	NM	685.71
	9/20/2010	692.10	6.44	NM	685.66
	9/24/2010	692.10	6.57	NM	685.53
	10/1/2010	692.10	6.80	NM	685.30
	10/5/2010	692.10	6.62	NM	685.48
	10/12/2010	692.10	6.87	NM	685.23
	10/18/2010	692.10	6.78	NM	685.32
	12/10/2010	692.10	5.55	NM	686.55
	12/13/2010	692.10	5.16	NM	686.94
	12/28/2010	692.10	5.50	NM	686.60
	1/3/2011	692.10	4.98	NM	687.12
	1/10/2011	692.10	5.52	NM	686.58
	1/17/2011	692.10	5.58	NM	686.52
	2/18/2011	692.10	5.38	NM	686.72
	2/22/2011	692.10	3.93	NM	688.17
	3/4/2011	692.10	4.41	NM	687.69
	3/7/2011	692.10	4.11	NM	687.99
	3/18/2011	692.10	4.97	NM	687.13
	3/28/2011	692.10	5.32	NM	686.78
	6/21/2011	692.10	4.84	NM	687.26
	9/26/2011	692.10	4.66	NM	687.44
	7/13/2015	692.10	4.20	NM	687.90
	3/12/2018	692.10	4.36	NM	687.74

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-2	12/28/2009	688.19	4.39	45.48	683.80
	1/6/2010	688.19	4.59	NM	683.60
	1/11/2010	688.19	4.68	NM	683.51
	1/18/2010	688.19	4.90	NM	683.29
	1/20/2010	688.19	4.55	NM	683.64
	1/25/2010	688.19	3.83	NM	684.36
	2/1/2010	688.19	4.46	NM	683.73
	2/2/2010	688.19	4.51	NM	683.68
	2/3/2010	688.19	4.50	NM	683.69
	2/4/2010	688.19	4.57	NM	683.62
	2/5/2010	688.19	4.43	NM	683.76
	2/22/2010	688.19	3.71	NM	684.48
	3/2/2010	688.19	4.10	NM	684.09
	3/4/2010	688.19	4.21	NM	683.98
	3/8/2010	688.19	5.02	NM	683.17
	3/11/2010	688.19	4.60	NM	683.59
	4/16/2010	688.19	4.45	NM	683.74
	4/26/2010	688.19	3.80	NM	684.39
	5/5/2010	688.19	4.15	NM	684.04
	6/1/2010	688.19	4.53	NM	683.66
	6/9/2010	688.19	4.31	NM	683.88
	6/15/2010	688.19	3.81	NM	684.38
	6/24/2010	688.19	4.44	NM	683.75
	7/6/2010	688.19	4.82	NM	683.37
	7/13/2010	688.19	4.97	NM	683.22
	7/20/2010	688.19	4.41	NM	683.78
	8/3/2010	688.19	5.02	NM	683.17
	8/10/2010	688.19	5.03	NM	683.16
	8/17/2010	688.19	5.27	NM	682.92
	8/23/2010	688.19	4.96	NM	683.23
	8/30/2010	688.19	5.09	NM	683.10
	9/20/2010	688.19	5.13	NM	683.06
	9/24/2010	688.19	5.20	NM	682.99
	10/1/2010	688.19	5.35	NM	682.84
	10/5/2010	688.19	5.28	NM	682.91
	10/12/2010	688.19	5.36	NM	682.83
	10/18/2010	688.19	5.36	NM	682.83
	12/10/2010	688.19	4.65	NM	683.54
	12/13/2010	688.19	4.34	NM	683.85
	12/28/2010	688.19	4.50	NM	683.69
	1/3/2011	688.19	4.05	NM	684.14
	1/10/2011	688.19	4.60	NM	683.59
	1/17/2011	688.19	4.69	NM	683.50
	2/18/2011	688.19	3.89	NM	684.30
	2/22/2011	688.19	3.55	NM	684.64
	3/4/2011	688.19	3.86	NM	684.33
	3/7/2011	688.19	3.64	NM	684.55
	3/18/2011	688.19	4.18	NM	684.01
	3/28/2011	688.19	3.85	NM	684.34
	6/21/2011	688.19	4.01	NM	684.18
	9/26/2011	688.19	4.04	NM	684.15
	7/13/2015	688.19	2.45	NM	685.74
	3/12/2018	688.19	3.79	NM	684.40

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-3	12/28/2009	688.83	4.79	44.82	684.04
	1/6/2010	688.83	4.99	NM	683.84
	1/11/2010	688.83	5.09	NM	683.74
	1/18/2010	688.83	4.78	NM	684.05
	1/20/2010	688.83	4.94	NM	683.89
	1/25/2010	688.83	4.22	NM	684.61
	2/1/2010	688.83	4.85	NM	683.98
	2/2/2010	688.83	4.91	NM	683.92
	2/3/2010	688.83	4.95	NM	683.88
	2/4/2010	688.83	4.97	NM	683.86
	2/5/2010	688.83	4.85	NM	683.98
	2/22/2010	688.83	4.45	NM	684.38
	3/2/2010	688.83	4.78	NM	684.05
	3/4/2010	688.83	5.01	NM	683.82
	3/8/2010	688.83	5.31	NM	683.52
	3/11/2010	688.83	4.98	NM	683.85
	4/16/2010	688.83	4.87	NM	683.96
	4/26/2010	688.83	4.16	NM	684.67
	5/5/2010	688.83	4.52	NM	684.31
	6/1/2010	688.83	4.88	NM	683.95
	6/9/2010	688.83	4.69	NM	684.14
	6/15/2010	688.83	4.17	NM	684.66
	6/24/2010	688.83	4.83	NM	684.00
	7/6/2010	688.83	5.22	NM	683.61
	7/13/2010	688.83	5.34	NM	683.49
	7/20/2010	688.83	4.87	NM	683.96
	8/3/2010	688.83	5.39	NM	683.44
	8/10/2010	688.83	5.42	NM	683.41
	8/17/2010	688.83	5.63	NM	683.20
	8/23/2010	688.83	5.35	NM	683.48
	8/30/2010	688.83	5.48	NM	683.35
	9/20/2010	688.83	5.52	NM	683.31
	9/24/2010	688.83	5.58	NM	683.25
	10/1/2010	688.83	5.77	NM	683.06
	10/5/2010	688.83	5.65	NM	683.18
	10/12/2010	688.83	5.74	NM	683.09
	10/18/2010	688.83	5.74	NM	683.09
	12/10/2010	688.83	4.95	NM	683.88
	12/13/2010	688.83	4.70	NM	684.13
	12/28/2010	688.83	4.88	NM	683.95
	1/3/2011	688.83	4.36	NM	684.47
	1/10/2011	688.83	4.83	NM	684.00
	1/17/2011	688.83	4.94	NM	683.89
	2/18/2011	688.83	4.84	NM	683.99
	2/22/2011	688.83	3.80	NM	685.03
	3/4/2011	688.83	4.08	NM	684.75
	3/7/2011	688.83	3.90	NM	684.93
	3/18/2011	688.83	4.50	NM	684.33
	3/28/2011	688.83	4.80	NM	684.03
	6/21/2011	688.83	4.39	NM	684.44
	9/26/2011	688.83	4.44	NM	684.39
	7/13/2015	688.83	3.70	NM	685.13
	3/12/2018	688.83	4.96	NM	683.87

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-4	12/4/2009	691.04	8.00	45.86	683.04
	12/7/2009	691.04	8.00	NM	683.04
	12/8/2009	691.04	8.00	NM	683.04
	12/9/2009	691.04	8.00	NM	683.04
	12/10/2009	691.04	8.00	NM	683.04
	12/11/2009	691.04	8.00	NM	683.04
	12/28/2009	691.04	7.28	NM	683.76
	12/29/2009	691.04	7.32	NM	683.72
	1/4/2010	691.04	7.54	NM	683.50
	1/5/2010	691.04	7.36	NM	683.68
	1/6/2010	691.04	7.48	NM	683.56
	1/7/2010	691.04	7.49	NM	683.55
	1/11/2010	691.04	7.56	NM	683.48
	1/18/2010	691.04	7.77	NM	683.27
	1/25/2010	691.04	6.64	NM	684.40
	2/1/2010	691.04	7.32	NM	683.72
	2/2/2010	691.04	7.47	NM	683.57
	2/4/2010	691.04	7.98	NM	683.06
	2/5/2010	691.04	7.36	NM	683.68
	2/22/2010	691.04	5.98	NM	685.06
	3/2/2010	691.04	7.33	NM	683.71
	3/4/2010	691.04	7.42	NM	683.62
	3/8/2010	691.04	7.51	NM	683.53
	3/11/2010	691.04	8.12	NM	682.92
	3/24/2010	691.04	7.09	NM	683.95
	4/15/2010	691.04	7.20	NM	683.84
	4/19/2010	691.04	7.51	NM	683.53
	4/26/2010	691.04	7.11	NM	683.93
	5/5/2010	691.04	6.96	NM	684.08
	6/1/2010	691.04	7.41	NM	683.63
	6/9/2010	691.04	7.26	NM	683.78
	6/15/2010	691.04	6.60	NM	684.44
	6/24/2010	691.04	7.30	NM	683.74
	7/6/2010	691.04	7.72	NM	683.32
	7/13/2010	691.04	7.86	NM	683.18

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-4	7/20/2010	691.04	7.35	NM	683.69
	7/22/2010	691.04	7.50	NM	683.54
	8/3/2010	691.04	7.92	NM	683.12
	8/10/2010	691.04	7.90	NM	683.14
	8/17/2010	691.04	8.24	NM	682.80
	8/23/2010	691.04	7.88	NM	683.16
	8/30/2010	691.04	8.01	NM	683.03
	9/20/2010	691.04	8.06	NM	682.98
	9/24/2010	691.04	8.13	NM	682.91
	10/1/2010	691.04	8.31	NM	682.73
	10/5/2010	691.04	8.20	NM	682.84
	10/12/2010	691.04	8.29	NM	682.75
	10/18/2010	691.04	8.28	NM	682.76
	10/29/2010	691.04	7.97	NM	683.07
	12/10/2010	691.04	7.60	NM	683.44
	12/13/2010	691.04	7.14	NM	683.90
	12/28/2010	691.04	7.35	NM	683.69
	1/3/2011	691.04	6.86	NM	684.18
	1/10/2011	691.04	7.46	NM	683.58
	1/17/2011	691.04	7.57	NM	683.47
	2/18/2011	691.04	7.40	NM	683.64
	2/22/2011	691.04	6.35	NM	684.69
	3/4/2011	691.04	6.65	NM	684.39
	3/7/2011	691.04	6.45	NM	684.59
	3/18/2011	691.04	6.97	NM	684.07
	3/28/2011	691.04	7.35	NM	683.69
	6/21/2011	691.04	6.82	NM	684.22
	9/26/2011	691.04	6.90	NM	684.14
	7/13/2015	691.04	5.45	NM	685.59
	3/12/2018	691.04	6.81	NM	684.23

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-5	12/28/2009	692.19	8.08	47.04	684.11
	1/6/2010	692.19	8.38	NM	683.81
	1/11/2010	692.19	8.45	NM	683.74
	1/18/2010	692.19	8.55	NM	683.64
	1/20/2010	692.19	8.42	NM	683.77
	1/25/2010	692.19	7.75	NM	684.44
	2/1/2010	692.19	8.17	NM	684.02
	2/22/2010	692.19	8.12	NM	684.07
	3/8/2010	692.19	8.14	NM	684.05
	3/11/2010	692.19	8.62	NM	683.57
	4/15/2010	692.19	8.10	NM	684.09
	4/16/2010	692.19	9.36	NM	682.83
	4/26/2010	692.19	7.80	NM	684.39
	5/5/2010	692.19	7.81	NM	684.38
	6/1/2010	692.19	8.08	NM	684.11
	6/9/2010	692.19	8.03	NM	684.16
	6/15/2010	692.19	7.30	NM	684.89
	6/24/2010	692.19	8.14	NM	684.05
	7/6/2010	692.19	8.62	NM	683.57
	7/13/2010	692.19	8.64	NM	683.55
	7/20/2010	692.19	8.62	NM	683.57
	7/22/2010	692.19	10.22	NM	681.97
	8/3/2010	692.19	8.75	NM	683.44
	8/10/2010	692.19	9.13	NM	683.06
	8/17/2010	692.19	9.31	NM	682.88
	8/23/2010	692.19	8.81	NM	683.38
	8/30/2010	692.19	8.86	NM	683.33
	9/20/2010	692.19	10.70	NM	681.49
	9/24/2010	692.19	9.26	NM	682.93
	10/1/2010	692.19	9.42	NM	682.77
	10/5/2010	692.19	10.00	NM	682.19
	10/12/2010	692.19	9.42	NM	682.77
	10/18/2010	692.19	9.50	NM	682.69
	10/29/2010	692.19	8.91	NM	683.28
	12/10/2010	692.19	9.45	NM	682.74
	12/13/2010	692.19	8.17	NM	684.02
	12/28/2010	692.19	8.21	NM	683.98
	1/3/2011	692.19	7.70	NM	684.49
	1/10/2011	692.19	8.31	NM	683.88
	1/17/2011	692.19	8.43	NM	683.76
	2/18/2011	692.19	8.29	NM	683.90
	2/22/2011	692.19	7.19	NM	685.00
	3/4/2011	692.19	7.64	NM	684.55
	3/7/2011	692.19	7.35	NM	684.84
	3/18/2011	692.19	7.92	NM	684.27
	3/28/2011	692.19	8.29	NM	683.90
	6/21/2011	692.19	7.93	NM	684.26
	9/26/2011	692.19	7.70	NM	684.49
	7/13/2015	692.19	6.49	NM	685.70
	3/12/2018	692.19	7.78	NM	684.41

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-6	4/15/2010	689.70	5.95	42.65	683.75
	4/16/2010	689.70	6.06	NM	683.64
	4/22/2010	689.70	6.20	NM	683.50
	4/26/2010	689.70	5.25	NM	684.45
	5/5/2010	689.70	5.64	NM	684.06
	6/1/2010	689.70	6.11	NM	683.59
	6/9/2010	689.70	5.98	NM	683.72
	6/15/2010	689.70	5.32	NM	684.38
	6/24/2010	689.70	5.99	NM	683.71
	7/6/2010	689.70	6.87	NM	682.83
	7/13/2010	689.70	7.01	NM	682.69
	7/20/2010	689.70	6.08	NM	683.62
	7/22/2010	689.70	6.21	NM	683.49
	8/3/2010	689.70	6.62	NM	683.08
	8/10/2010	689.70	6.67	NM	683.03
	8/17/2010	689.70	6.84	NM	682.86
	8/23/2010	689.70	6.58	NM	683.12
	8/30/2010	689.70	6.70	NM	683.00
	9/20/2010	689.70	6.78	NM	682.92
	9/24/2010	689.70	6.85	NM	682.85
	10/1/2010	689.70	7.05	NM	682.65
	10/5/2010	689.70	6.92	NM	682.78
	10/12/2010	689.70	7.05	NM	682.65
	10/18/2010	689.70	7.02	NM	682.68
	10/29/2010	689.70	6.68	NM	683.02
	12/10/2010	689.70	6.65	NM	683.05
	12/13/2010	689.70	5.87	NM	683.83
	12/28/2010	689.70	6.05	NM	683.65
	1/3/2011	689.70	5.58	NM	684.12
	1/10/2011	689.70	6.18	NM	683.52
	1/17/2011	689.70	6.24	NM	683.46
	2/18/2011	689.70	6.12	NM	683.58
	2/22/2011	689.70	5.07	NM	684.63
	3/4/2011	689.70	5.40	NM	684.30
	3/7/2011	689.70	5.14	NM	684.56
	3/18/2011	689.70	5.74	NM	683.96
	6/21/2011	689.70	5.48	NM	684.22
	9/26/2011	689.70	5.58	NM	684.12
	7/13/2015	689.70	4.78	NM	684.92
	3/12/2018	689.70	6.23	NM	683.47

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-7	12/10/2010	691.70	8.55	NM	683.15
	12/13/2010	691.70	9.19	NM	682.51
	12/28/2010	691.70	8.31	NM	683.39
	1/3/2011	691.70	7.84	NM	683.86
	1/10/2011	691.70	8.38	NM	683.32
	1/17/2011	691.70	8.60	NM	683.10
	3/4/2011	691.70	7.15	NM	684.55
	3/7/2011	691.70	6.75	NM	684.95
	3/18/2011	691.70	7.38	NM	684.32
	3/28/2011	691.70	7.39	NM	684.31
	6/21/2011	691.70	8.26	NM	683.44
	9/26/2011	691.70	8.85	NM	682.85
	7/13/2015	691.70	5.83	NM	685.87
	3/12/2018	691.70	8.28	NM	683.42

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-8	7/13/2015	687.98	4.25	NM	683.73
	3/12/2018	687.98	6.82	NM	681.16

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-9	7/13/2015	688.59	5.05	NM	683.54
	3/12/2018	688.59	7.70	NM	680.89

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-10	7/13/2015	689.86	4.82	NM	685.04
	3/12/2018	689.86	7.91	NM	681.95

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-11	7/13/2015	690.67	6.92	NM	683.75
	3/12/2018	690.67	9.41	NM	681.26

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-12	7/13/2015	688.92	4.08	NM	684.84
	3/12/2018	688.92	8.42	NM	680.50

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-13	7/13/2015	688.57	5.15	NM	683.42
	3/12/2018	688.57	7.74	NM	680.83

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-14	7/13/2015	688.29	5.82	NM	682.47
	3/12/2018	688.29	8.24	NM	680.05

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-15	7/13/2015	690.74	4.62	NM	686.12
	3/12/2018	690.74	8.45	NM	682.29

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-16	7/13/2015	689.42	4.45	NM	684.97
	3/12/2018	689.42	5.80	NM	683.62

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-17	7/13/2015	690.37	5.73	NM	684.64
	3/12/2018	690.37	7.20	NM	683.17

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-18	7/13/2015	687.23	2.07	NM	685.16
	3/12/2018	687.23	4.32	NM	682.91

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
RW-19	3/12/2018	NS	7.93	NM	NS

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
Sump	3/3/2009	693.15	4.44	NM	688.71
	3/11/2009	693.15	4.30	NM	688.85
	3/17/2009	693.15	4.94	NM	688.21
	3/25/2009	693.15	3.14	NM	690.01
	3/31/2009	693.15	3.82	NM	689.33
	4/20/2009	693.15	4.07	NM	689.08
	4/29/2009	693.15	4.76	NM	688.39
	5/6/2009	693.15	4.42	NM	688.73
	5/11/2009	693.15	4.64	NM	688.51
	5/20/2009	693.15	4.62	NM	688.53
	5/27/2009	693.15	5.36	NM	687.79
	6/8/2009	693.15	5.92	NM	687.23
	6/15/2009	693.15	4.51	NM	688.64
	6/25/2009	693.15	3.95	NM	689.20
	6/30/2009	693.15	5.16	NM	687.99
	7/31/2009	693.15	4.68	NM	688.47
	8/13/2009	693.15	5.62	NM	687.53
	8/26/2009	693.15	6.40	NM	686.75
	10/2/2009	693.15	5.10	NM	688.05
	10/6/2009	693.15	5.63	NM	687.52
	12/18/2009	693.15	4.68	NM	688.47
	1/26/2010	693.15	4.30	NM	688.85
	2/3/2010	693.15	5.91	NM	687.24
	3/1/2010	693.15	5.29	NM	687.86
	6/15/2010	693.15	2.34	NM	690.81
	8/30/2010	693.15	6.49	NM	686.66
	9/20/2010	693.15	6.49	NM	686.66
	2/18/2011	693.15	5.55	NM	687.60
	3/7/2011	693.15	3.48	NM	689.67
	6/21/2011	693.15	4.98	NM	688.17
	9/26/2011	693.15	4.67	NM	688.48
	12/12/2011	693.15	4.65	NM	688.50
	4/2/2012	693.15	4.95	NM	688.20
	7/9/2012	693.15	6.23	NM	686.92
	10/1/2012	693.15	6.10	NM	687.05
	3/12/2018	693.15	4.20	NM	688.95

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
Bridge (trail)	2/25/2009	702.51	17.74	NA	684.77
	3/3/2009	702.51	17.75	NA	684.76
	3/11/2009	702.51	17.92	NA	684.59
	3/17/2009	702.51	18.10	NA	684.41
	3/25/2009	702.51	17.25	NA	685.26
	3/31/2009	702.51	17.68	NA	684.83
	4/20/2009	702.51	17.79	NA	684.72
	4/29/2009	702.51	17.87	NA	684.64
	5/6/2009	702.51	17.90	NA	684.61
	5/11/2009	702.51	17.89	NA	684.62
	5/20/2009	702.51	17.85	NA	684.66
	5/27/2009	702.51	17.99	NA	684.52
	6/8/2009	702.51	18.10	NA	684.41
	6/15/2009	702.51	17.95	NA	684.56
	6/25/2009	702.51	17.68	NA	684.83
	6/30/2009	702.51	18.07	NA	684.44
	8/13/2009	702.51	17.81	NA	684.70
	8/26/2009	702.51	18.18	NA	684.33
	10/2/2009	702.51	17.80	NA	684.71
	10/6/2009	702.51	17.54	NA	684.97
	12/18/2009	702.51	17.77	NA	684.74
	1/26/2010	702.51	17.58	NA	684.93
	2/3/2010	702.51	17.73	NA	684.78
	3/1/2010	702.51	17.69	NA	684.82
	6/9/2010	702.51	17.87	NA	684.64
	6/15/2010	702.51	17.77	NA	684.74
	8/30/2010	702.51	18.25	NA	684.26
	9/20/2010	702.51	18.20	NA	684.31
	12/13/2010	702.51	18.02	NA	684.49
	2/18/2011	702.51	18.07	NA	684.44
	3/7/2011	702.51	17.65	NA	684.86
	6/21/2011	702.51	18.01	NA	684.50
	9/26/2011	702.51	17.76	NA	684.75
	12/12/2011	702.51	17.85	NA	684.66
	4/2/2012	702.51	17.86	NA	684.65
	7/9/2012	702.51	18.25	NA	684.26
	10/1/2012	702.51	17.80	NA	684.71
	3/12/2018	702.51	17.79	NA	684.72

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
Bridge (road)	6/15/2010	693.04	8.32	NA	684.72

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
SG-1	6/9/2010	679.60	1.10	NA	678.50
	6/15/2010	679.60	1.25	NA	678.35
	8/30/2010	679.60	0.66	NA	678.94
	9/20/2010	679.60	0.65	NA	678.95
	2/18/2011	679.60	0.89	NA	678.71
	3/7/2011	679.60	1.38	NA	678.22
	6/21/2011	679.60	1.00	NA	678.60
	9/26/2011	679.60	1.20	NA	678.40
	12/12/2011	679.60	0.99	NA	678.61
	4/2/2012	679.60	1.00	NA	678.60
	7/9/2012	679.60	0.70	NA	678.90
	10/1/2012	697.60	0.91	NA	696.69

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
SG-2	6/9/2010	680.38	1.22	NA	679.16
	6/15/2010	680.38	1.42	NA	678.96
	8/30/2010	680.38	0.96	NA	679.42
	9/20/2010	680.38	0.92	NA	679.46
	2/18/2011	680.38	1.06	NA	679.32
	3/7/2011	680.38	1.28	NA	679.10
	6/21/2011	680.38	1.12	NA	679.26
	9/26/2011	680.38	1.41	NA	678.97
	12/12/2011	680.38	1.12	NA	679.26
	4/2/2012	680.38	NM	NA	NM
	7/9/2012	680.38	0.82	NA	679.56
	10/1/2012	680.38	0.98	NA	679.40

Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
SG-3	6/9/2010	683.03	0.88	NA	682.15
	6/15/2010	683.03	0.98	NA	682.05
	8/30/2010	683.03	0.56	NA	682.47
	9/20/2010	683.03	0.54	NA	682.49
	12/13/2010	683.03	0.76	NA	682.27
	2/18/2011	683.03	0.69	NA	682.34
	3/7/2011	683.03	1.14	NA	681.89
	6/21/2011	683.03	0.82	NA	682.21
	9/26/2011	683.03	0.97	NA	682.06
	12/12/2011	683.03	0.79	NA	682.24
	4/2/2012	683.03	0.79	NA	682.24
	7/9/2012	683.03	0.51	NA	682.52
	10/1/2012	683.03	0.58	NA	682.45

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Table 3. Water Level Elevation Data
Former Indiana Creosoting Company
Bloomington, Indiana

Well I.D.	Date	Measuring Point Elevation (feet AMSL)	Measured Depth to Water (feet below MP)	Measured Total Well Depth (feet below MP)	Water Elevation (feet AMSL)
SG-4	6/9/2010	690.02	1.55	NA	688.47
	6/15/2010	690.02	1.90	NA	688.12
	8/30/2010	690.02	2.66	NA	687.36
	9/20/2010	690.02	2.93	NA	687.09
	12/13/2010	690.02	1.40	NA	688.62
	2/18/2011	690.02	1.77	NA	688.25
	3/7/2011	690.02	1.97	NA	688.05
	6/21/2011	690.02	1.74	NA	688.28
	9/26/2011	690.02	1.90	NA	688.12
	12/12/2011	690.02	1.80	NA	688.22
	4/2/2012	690.02	1.84	NA	688.18
	7/9/2012	690.02	1.54	NA	688.48
	10/1/2012	690.02	1.54	NA	688.48

Abbreviations:

AMSL = Above mean sea level.
MP = Measuring point (top of casing for wells).
NA = Not applicable.
NM = Not measured.

Notes:

1. Elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).
2. Historical elevation data was recalculated based on the 2008 survey.

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-1S	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	8/4/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1S	8/11/2003	--	0.001	0.006	0.008	0.008	NA	NA	NA	NA
MW-1S	10/29/2003	--	<0.001	<0.002	0.001	<0.006	NA	NA	NA	NA
MW-1S	2/17/2004	--	<0.001	<0.002	0.0016 J	0.003 J	0.011	<0.0050	<0.0050	<0.0050
MW-1S	9/9/2004	--	0.00086 J	<0.002	0.003	0.0022 J	<0.0050	NA	<0.0050	NA
MW-1S	8/1/2006	--	<0.001	0.00056 J	0.003	0.003	NA	NA	NA	NA
MW-1S	11/19/2008	7.0	<0.0010	<0.0010	<0.0010	<0.003	<0.010	NA	<0.010	NA
MW-1S	12/10/2009	97.2	<0.0050	<0.0050	<0.0050	<0.015	<0.01	NA	<0.0050	NA
MW-1S	12/9/2011	--	Well damaged beyond repair during City Utility Upgrade and was abandoned 12/9/2011							
MW-1D	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	8/4/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-1D	8/11/2003	--	0.004	0.007	0.030	0.031	NA	NA	NA	NA
MW-1D	10/1/2003	--	NA	NA	NA	NA	0.009	<0.0050	0.014	<0.0050
MW-1D	10/29/2003	--	< 0.01	0.010	0.034	0.046	NA	NA	NA	NA
MW-1D	2/17/2004	--	**0.005**	0.007	0.031	0.043	<0.0050	<0.0050	<0.0050	<0.0050
MW-1D	9/9/2004	--	0.0031 J	0.005 J	0.024	0.0233 J	<0.0050	NA	< 0.01	NA
MW-1D	8/2/2006	--	<0.001	<0.001	0.00069 J	<0.003	NA	NA	NA	NA
MW-1D	7/24/2007	--	0.0016 J	0.003	0.019	0.017	NA	NA	NA	NA
MW-1D	11/19/2008	2.6	<0.0050	0.0027 J	0.0201	0.0149 J	<0.010	NA	<0.010	NA
MW-1D	12/9/2009	0.0	<0.025	<0.025	<0.025	<0.075	<0.010	NA	<0.010	NA
MW-1D	12/14/2010	20.9	<0.0050	<0.0050	0.0181	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-1D	12/14/2011	13.3	<0.0050	<0.0050	0.0238	0.0212	<0.010	NA	<0.0050	NA
MW-1D	7/16/2015	8.2	<0.0050	<0.0050	0.0141	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-1D	3/15/2018	218	<0.0050	<0.0050	0.0083	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-2S	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2S	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2S	2/26/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2S	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2S	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2S	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-2S	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-2S	11/1/2008	--	Insufficient water supply to fill all containers							
MW-2S	12/9/2009	214.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-2S	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-2S	11/29/2011	86.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-2S	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-2D	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2D	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2D	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2D	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2D	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
		1996 VRP Tier II Non-Residential	--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-2D	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-2D	8/11/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-2D	10/30/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-2D	2/17/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-2D	9/9/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-2D	8/1/2006		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-2D	7/24/2007		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-2D	11/19/2008		28.1	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-2D	12/10/2009		9.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-2D	6/23/2011		--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-2D	11/29/2011		2.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-2D	12/9/2011		--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-3S	5/18/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3S	8/11/2003		--	**0.107**	0.130	0.151	0.397	NA	NA	NA	NA
MW-3S	10/30/2003		--	**0.059**	0.098	0.094	0.238	NA	NA	NA	NA
MW-3S	2/18/2004		--	**0.025**	0.039	0.048	0.116	**0.050**	<0.0050	**0.033**	<0.0050
MW-3S	8/1/2006		--	**0.027**	0.035	0.032	0.081	NA	NA	NA	NA
MW-3S	7/24/2008		--	Well Abandoned August 2006 for installation of City walk path							
MW-3D	5/18/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	8/14/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	11/13/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	2/1/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	6/21/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-3D	8/11/2003		--	**0.398**	0.345	0.179	0.445	NA	NA	NA	NA
MW-3D	10/30/2003		--	**0.316**	0.354	0.173	0.431	NA	NA	NA	NA
MW-3D	2/18/2004		--	**0.229**	0.229	0.176	0.446	0.013	<0.0050	<0.0050	<0.0050
MW-3D	9/10/2004		--	**0.493**	0.423	0.228	0.530	<0.0050	NA	<0.0050	NA
MW-3D	8/2/2006		--	**0.354**	0.350	0.157	0.408	NA	NA	NA	NA
MW-3D	7/24/2008		--	Well Abandoned August 2006 for installation of City walk path							
MW-4S	8/12/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-4S	10/1/2003		--	NA	NA	NA	NA	**0.067**	<0.0050	**0.029**	<0.0050
MW-4S	10/31/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-4S	2/19/2004		--	<0.001	<0.002	<0.002	<0.006	0.020	<0.0050	0.006	<0.0050
MW-4S	12/9/2011		--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-4D	8/12/2003		--	**0.114**	0.053	0.042	0.099	NA	NA	NA	NA
MW-4D	10/31/2003		--	**0.117**	0.049	0.054	0.155	NA	NA	NA	NA
MW-4D	2/19/2004		--	**0.172**	0.057	0.037	0.184	0.043	<0.0050	**0.086**	<0.0050
MW-4D	9/9/2004		--	**0.368**	0.214	0.184	0.477	<0.0050	NA	< 0.01	NA
MW-4D	8/2/2006		--	**0.153**	0.111	0.085	0.214	NA	NA	NA	NA
MW-4D	7/24/2007		--	**0.142**	0.085	0.077	0.183	NA	NA	NA	NA
MW-4D	11/17/2008		18.5	**0.0814**	0.0852	0.0451	0.117	<0.010	NA	<0.0050	NA
MW-4D	12/16/2009		--	**0.0721**	0.0078	0.0413	0.0844	<0.010	NA	<0.0050	NA
MW-4D	12/9/2011		--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-5S	8/12/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-5S	10/1/2003		--	NA	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
MW-5S	10/31/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-5S	2/19/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-5S	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-5S	8/2/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-5S	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-5S	11/17/2008	--	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.0050	NA
MW-5S	12/16/2009	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-5S	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.10	<0.10	0.0065	<0.0050
MW-5S	7/12/2012	56.0	<0.0050	<0.0050	<0.0050	<0.015	0.0119	<0.010	<0.0050	<0.0050
MW-5S	7/15/2015	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.033	<0.010	**0.0395**	<0.0050
MW-5S	3/13/2018	163.0	<0.0050	<0.0050	<0.0050	<0.015	0.033	NA	**0.161**	NA
MW-5D	8/12/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-5D	10/31/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-5D	2/19/2004	--	<0.001	<0.002	0.00096 J	<0.006	<0.0050	<0.0050	0.007	<0.0050
MW-5D	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-5D	8/2/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-5D	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-5D	11/17/2008	--	<0.001	<0.001	<0.001	<0.003	0.0153	NA	0.0054	NA
MW-5D	12/16/2009	90.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-5D	12/16/2010	390.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-5D	12/16/2011	59.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-5D	7/16/2015	241.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-5D	3/12/2018	87	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6S	2/19/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	**0.066**	<0.0050
MW-6S	11/17/2008	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-6S	12/16/2009	62.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	0.0073	NA
MW-6S	7/16/2015	521.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6S	4/9/2018	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6D	8/12/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-6D	8/14/2003	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-6D	10/31/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-6D	2/19/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.008	<0.0050
MW-6D	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	0.006	NA
MW-6D	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-6D	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-6D	11/17/2008	--	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.0050	NA
MW-6D	12/16/2009	335.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-6D	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6D	7/12/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6D	7/16/2015	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-6D	3/14/2018	212.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-7S	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7S	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-7S	10/1/2003	--	NA	NA	NA	NA	**0.096**	<0.0050	**0.042**	<0.0050
MW-7S	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
		1996 VRP Tier II Non-Residential	--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-7S	2/18/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-7S	9/9/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-7S	8/1/2006		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-7S	7/24/2008		--	Well Abandoned August 2006 for installation of City walk path							
MW-7D	5/18/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	8/14/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	11/13/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	2/1/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	6/21/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-7D	8/11/2003		--	0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-7D	10/30/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-7D	2/18/2004		--	<0.001	<0.002	<0.002	<0.006	0.006	<0.0050	**0.024**	<0.0050
MW-7D	9/9/2004		--	0.00088 J	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-7D	8/1/2006		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-7D	7/24/2008		--	Well Abandoned August 2006 for installation of City walk path							
MW-8S	6/21/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-8S	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-8S	8/12/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-8S	10/1/2003		--	NA	NA	NA	NA	<0.0050	<0.0050	0.010	<0.0050
MW-8S	10/31/2003		--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-8S	2/19/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.013	<0.0050
MW-8S	9/9/2004		--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-8S	8/1/2006		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-8S	7/24/2007		--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-8S	11/18/2008		--	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-8S	12/15/2009		327.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-8S	12/14/2010		--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-8S	12/16/2011		292.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-8S	7/15/2015		334.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0073	<0.0050
MW-8S	4/9/2018		--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-8D	6/21/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-8D	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-8D	8/12/2003		--	**0.100**	0.020	0.036	0.074	NA	NA	NA	NA
MW-8D	10/31/2003		--	**0.074**	0.037	0.025	0.141	NA	NA	NA	NA
MW-8D	2/19/2004		--	**0.098**	0.019	0.020	0.095	<0.0050	<0.0050	0.011	<0.0050
MW-8D	9/9/2004		--	**0.192**	0.046	0.045	0.173	<0.0050	NA	< 0.01	NA
MW-8D	8/1/2006		--	**0.109**	0.026	0.042	0.079	NA	NA	NA	NA
MW-8D	7/24/2007		--	**0.095**	0.025	0.026	0.080	NA	NA	NA	NA
MW-8D	11/18/2008		26.7	**0.0847**	0.0304	0.0242	0.089	<0.010	NA	<0.010	NA
MW-8D	12/15/2009		2061.0	**0.0801**	0.0472	0.0323	0.123	<0.010	<0.010	<0.0050	<0.0050
MW-8D	6/24/2011		--	**0.092**	0.0492	0.044	0.147	<0.010	<0.010	<0.0050	<0.0050
MW-8D	7/10/2012		0.0	**0.0791**	0.0532	0.0339	0.174	0.0106	NA	**0.0174**	NA
MW-8D	7/15/2015		23.4	**0.0428**	0.0275	0.0264	0.14	<0.010	NA	<0.0050	NA
MW-8D	3/13/2018		176	**0.0358**	0.034	0.022	0.158	<0.010	NA	0.006	NA
MW-9	11/13/2000		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	2/1/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	6/21/2001		--	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	12/11/2001		--	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-9	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-9	10/29/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-9	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	0.005	<0.0050	0.010	<0.0050
MW-9	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-9	7/31/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-9	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-9	11/19/2008	--	<0.001	<0.001	<0.001	<0.003	<0.020	NA	**0.0279**	NA
MW-9	12/9/2009	439.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	**0.027**	NA
MW-9	12/13/2010	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	0.0113	NA
MW-9	12/14/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0070	<0.0050
MW-9	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0052	<0.0050
MW-9	4/9/2018	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0124	<0.0050
MW-10	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-10	10/29/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-10	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.008	<0.0050
MW-10	9/9/2004	--	0.005	0.011	0.007	0.010	<0.0050	NA	<0.0050	NA
MW-10	7/31/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-10	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-10	11/19/2008	12.7	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-10	12/9/2009	7.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-10	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0084	<0.0050
MW-10	7/13/2012	--	--	--	--	--	--	--	--	--
MW-10	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0061	<0.0050
MW-10	3/22/2018	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-11S	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-11D	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-11D	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-11D	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-11D	10/1/2003	--	NA	NA	NA	NA	0.019	<0.0050	**0.068**	<0.0050
MW-11D	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-11D	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.014	<0.0050
MW-11D	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-11D	7/31/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-11D	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-11D	11/19/2008	2.0	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-11D	12/9/2009	167.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-11D	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050
MW-11D	7/12/2012	250.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-11D	7/16/2015	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0098	<0.0050
MW-11D	3/16/2018	62.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-12S	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-12S	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-12S	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-12S	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-12S	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-12S	10/30/2003	--	<0.001	<0.002	0.075	<0.006	NA	NA	NA	NA
MW-12S	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	0.022	<0.0050	**0.039**	<0.0050
MW-12S	9/10/2004	--	<0.0010	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-12S	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-12S	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-12S	11/20/2008	5.0	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-12S	12/11/2009	164.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-12S	12/14/2010	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-12S	12/14/2011	134.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-12S	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	0.0147	<0.010	**0.0188**	<0.0050
MW-12S	3/26/2018		<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-12D	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-12D	8/11/2003	--	**0.369**	0.408	0.205	0.580	NA	NA	NA	NA
MW-12D	10/30/2003	--	**0.778**	0.525	0.151	0.494	NA	NA	NA	NA
MW-12D	2/18/2004	--	**0.237**	0.310	0.194	0.523	<0.0050	<0.0050	<0.0050	<0.0050
MW-12D	9/10/2004	--	**0.305**	0.340	0.190	0.503	<0.0050	NA	<0.0050	NA
MW-12D	8/2/2006	--	**0.464**	0.424	0.145	0.474	NA	NA	NA	NA
MW-12D	7/24/2007	--	**0.278**	0.314	0.161	0.423	NA	NA	NA	NA
MW-12D	11/20/2008	13.4	**0.308**	0.360	0.140	0.343	<0.020	NA	<0.010	NA
MW-12D	12/17/2009	0.0	**0.372**	0.399	0.171	0.436	<0.010	NA	<0.0050	NA
MW-12D	12/21/2010	24.3	**0.372**	0.415	0.176	0.448	<0.010	NA	<0.0050	NA
MW-12D	7/15/2015	0.0	**0.394**	0.493	0.175	0.449	<0.010	<0.010	<0.0050	<0.0050
MW-13	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	8/12/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-13	10/31/2003	--	**0.012**	0.015	0.043	0.073	NA	NA	NA	NA
MW-13	2/18/2004	--	0.004	0.004	0.010	0.018	0.021	<0.0050	**0.044**	<0.0050
MW-13	9/9/2004	--	**0.013**	0.014 J	0.039	0.0484 J	<0.0050	NA	< 0.01	NA
MW-13	8/1/2006	--	<0.001	<0.001	<0.00091	<0.003	NA	NA	NA	NA
MW-13	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-13	11/18/2008	39.1	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-13	12/15/2009	51.3	<0.0050	0.0052	0.0172	0.0253	<0.010	NA	<0.0050	NA
MW-13	6/22/2011	--	<0.0050	<0.0050	0.0087	<0.0015	0.0123	<0.010	<0.0050	<0.0050
MW-13	11/29/2011	149.0	<0.0050	0.0056	0.0222	0.0284	0.0226	<0.010	<0.0050	<0.0050
MW-13	12/9/2011	--	Well Abandoned December 2011 in Preparation of Site Excavation							
MW-14S	8/11/2003	--	0.003	0.005	0.014	0.034	NA	NA	NA	NA
MW-14S	10/31/2003	--	0.001	0.001	0.011	0.027	NA	NA	NA	NA
MW-14S	2/17/2004	--	< 0.02	< 0.04	0.0222 J	0.0492 J	0.016	<0.0050	**0.030**	<0.0050
MW-14S	9/9/2004	--	<0.001	< 0.02	0.0183 J	0.0263 J	<0.0050	NA	<0.0050	NA
MW-14S	8/1/2006	--	0.001	0.001	0.014	0.028	NA	NA	NA	NA
MW-14S	7/24/2007	--	<0.001	<0.001	0.003	0.004	NA	NA	NA	NA
MW-14S	11/20/2008	--	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-14S	12/11/2009	76.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-14S	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-14S	11/29/2011	72.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-14S	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-14D	8/11/2003	--	**0.155**	0.211	0.159	0.419	NA	NA	NA	NA

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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-14D	10/31/2003	--	**0.245**	0.288	0.211	0.552	NA	NA	NA	NA
MW-14D	2/17/2004	--	**0.227**	0.286	0.153	0.373	<0.0050	<0.0050	<0.0050	<0.0050
MW-14D	9/9/2004	--	**0.314**	0.329	0.190	0.487	<0.0050	NA	<0.0050	NA
MW-14D	8/2/2006	--	**0.084**	0.062	0.045	0.129	NA	NA	NA	NA
MW-14D	7/24/2007	--	**0.207**	0.242	0.138	0.363	NA	NA	NA	NA
MW-14D	11/20/2008	16.8	**0.078**	0.115	0.0888	0.203	<0.020	NA	<0.010	NA
MW-14D	12/17/2009	13.5	**0.0915**	0.124	0.0861	0.217	<0.010	NA	<0.0050	NA
MW-14D	12/21/2010	30.9	**0.0225**	0.0635	0.0682	0.171	<0.010	NA	<0.0050	NA
MW-14D	11/29/2011	33.1	*<0.10*	0.138	0.103	<0.30	<0.010	<0.010	<0.0050	<0.0050
MW-14D	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-15S	8/11/2003	--	**0.189**	0.156	0.112	0.300	NA	NA	NA	NA
MW-15S	10/30/2003	--	**0.103**	0.099	0.084	0.216	NA	NA	NA	NA
MW-15S	2/17/2004	--	**0.348**	0.285	0.144	0.345	0.026	NA	**0.034**	NA
MW-15S	2/17/2004	--	NA	NA	NA	NA	NA	<0.0050	NA	<0.0050
MW-15S	9/9/2004	--	**0.025**	0.016	0.016	0.035	<0.0050	NA	< 0.01	NA
MW-15S	8/1/2006	--	**0.109**	0.110	0.106	0.294	NA	NA	NA	NA
MW-15S	7/24/2007	--	Well destroyed during walk path construction in October 2006							
MW-15D	8/11/2003	--	**0.045**	0.043	0.017	0.046	NA	NA	NA	NA
MW-15D	10/30/2003	--	**0.427**	0.500	0.233	0.623	NA	NA	NA	NA
MW-15D	2/18/2004	--	**0.423**	0.516	0.252	0.728	0.045	<0.0050	**0.0782**	<0.0050
MW-15D	9/9/2004	--	**0.565**	0.519	0.240	0.678	<0.0050	NA	< 0.01	NA
MW-15D	8/1/2006	--	**0.217**	0.235	0.129	0.373	NA	NA	NA	NA
MW-15D	7/24/2007	--	**0.234**	0.291	0.137	0.377	NA	NA	NA	NA
MW-15D	11/20/2008	32.9	**0.260**	0.269	0.141	0.337	<0.020	NA	<0.010	NA
MW-15D	12/17/2009	15.9	**0.143**	0.215	0.127	0.342	<0.010	NA	<0.0050	NA
MW-15D	12/21/2010	118.0	**0.283**	0.31	0.184	0.443	<0.010	<0.010	<0.0050	<0.0050
MW-15D	7/15/2015	0.0	**0.121**	0.178	0.154	0.382	<0.010	<0.010	<0.0050	<0.0050
MW-16S	8/11/2003	--	< 0.01	<0.02	0.027	0.053	NA	NA	NA	NA
MW-16S	10/30/2003	--	<0.0025	0.004	0.016	0.037	NA	NA	NA	NA
MW-16S	2/18/2004	--	0.00094 J	0.006	0.016	0.039	0.033	<0.0050	**0.0622**	<0.0050
MW-16S	9/9/2004	--	<0.001	0.008 J	0.0171 J	0.0389 J	0.007	NA	<0.0050	NA
MW-16S	8/1/2006	--	<0.001	0.0064 J	0.013	0.032	NA	NA	NA	NA
MW-16S	7/25/2007	--	<0.001	0.002	0.004	0.008	NA	NA	NA	NA
MW-16S	11/20/2008	23.1	<0.0010	0.0017	0.0054	0.0117	<0.020	NA	<0.010	NA
MW-16S	12/11/2009	58.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-16S	12/14/2010	--	<0.0050	<0.0050	<0.0050	<0.015	0.0132	<0.010	<0.0050	<0.0050
MW-16S	12/14/2011	76.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.10	<0.0050	<0.0050
MW-16S	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	0.0175	<0.10	0.0099	<0.0050
MW-16S	3/26/2018	25.0	<0.0050	<0.0050	0.0143	0.0264	<0.010	<0.10	<0.0050	<0.0050
MW-16D	8/11/2003	--	**0.050**	0.098	0.082	0.177	NA	NA	NA	NA
MW-16D	10/30/2003	--	**0.095**	0.174	0.132	0.344	NA	NA	NA	NA
MW-16D	2/18/2004	--	**0.083**	0.197	0.193	0.559	<0.0050	<0.0050	<0.0050	<0.0050
MW-16D	9/9/2004	--	**0.0836 J**	0.209	0.167 J	0.434 J	<0.0050	NA	<0.0050	NA
MW-16D	8/2/2006	--	**0.029**	0.057	0.055	0.142	NA	NA	NA	NA
MW-16D	7/25/2007	--	**0.040**	0.092	0.098	0.239	NA	NA	NA	NA
MW-16D	11/19/2008	2.4	**0.0298**	0.0579	0.0676	0.139	<0.010	NA	<0.010	NA
MW-16D	12/17/2009	1.5	<0.050	0.0879	0.0871	0.201	<0.010	NA	<0.0050	NA
MW-16D	12/21/2010	62.3	**0.0285**	0.0742	0.0998	0.235	<0.010	<0.010	<0.0050	<0.0050
MW-16D	7/15/2015	298.0	**0.0255**	0.0539	0.0861	0.213	<0.010	<0.010	<0.0050	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-17S	8/12/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-17S	10/31/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-17S	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	0.026	<0.0050	**0.094**	<0.0050
MW-17S	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-17S	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-17S	7/26/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-17S	11/18/2008	23.6	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-17S	12/15/2009	161.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-17S	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0206	<0.0050
MW-17S	7/10/2012	187.0	<0.0050	<0.0050	<0.0050	<0.015	0.0441	<0.010	**0.534**	<0.0050
MW-17S	7/14/2015	589.0	<0.0050	<0.0050	<0.0050	<0.015	0.0133	<0.010	**0.0242**	<0.0050
MW-17S	4/9/2018	--	<0.0050	<0.0050	<0.0050	<0.015	<0.015	<0.010	**0.0245**	<0.0050
MW-17D	8/12/2003	--	**0.292**	0.250	0.070	0.205	NA	NA	NA	NA
MW-17D	10/31/2003	--	**0.290**	0.262	0.084	0.267	NA	NA	NA	NA
MW-17D	2/18/2004	--	**0.268**	0.219	0.075	0.225	**0.055**	<0.0050	**0.047**	<0.0050
MW-17D	9/9/2004	--	**0.322**	0.270	0.101	0.302	<0.0050	NA	< 0.01	NA
MW-17D	8/1/2006	--	**0.123**	0.099	0.037	0.105	NA	NA	NA	NA
MW-17D	7/26/2007	--	**0.091**	0.083	0.033	0.104	NA	NA	NA	NA
MW-17D	11/18/2008	31.1	**0.0098**	0.0033	0.00091 J	<0.0030	<0.010	NA	<0.010	NA
MW-17D	12/15/2009	5.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-17D	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-17D	7/13/2012	108.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-17D	7/14/2015	17.2	**0.0072**	0.0056	<0.0050	<0.015	<0.010	NA	0.0121	NA
MW-17D	3/14/2018	35	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-18S	8/12/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-18S	10/31/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-18S	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	0.034	<0.0050	**0.133**	<0.0050
MW-18S	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-18S	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-18S	7/25/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-18S	11/18/2008	--	<0.001	<0.001	<0.001	<0.003	0.0102	NA	<0.010	NA
MW-18S	12/15/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.050	NA
MW-18S	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	0.0114	<0.010	0.008	<0.0050
MW-18S	7/15/2015	61.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-18S	3/13/2018	10.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-18D	8/12/2003	--	**0.005**	0.011	0.010	0.027	NA	NA	NA	NA
MW-18D	10/31/2003	--	0.011	0.024	0.017	0.049	NA	NA	NA	NA
MW-18D	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-18D	8/1/2006	--	0.001	0.001	<0.001	0.0021 J	NA	NA	NA	NA
MW-18D	7/25/2007	--	0.001	0.001	<0.001	<0.003	NA	NA	NA	NA
MW-18D	11/18/2008	0.0	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-18D	12/15/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-18D	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-18D	7/10/2012	84.5	<0.0050	<0.0050	<0.0050	<0.015	0.049	NA	**0.0253**	NA
MW-18D	7/15/2015	3.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-18D	3/13/2018	3.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-19S	10/1/2003	--	NA	NA	NA	NA	**0.062**	<0.0050	**0.077**	<0.0050
MW-19S	10/31/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA

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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name / Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-19S	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	0.006	<0.0050	**0.017**	<0.0050
MW-19S	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	0.0064	<0.0050	**0.0172**	<0.0050
MW-19S	12/15/2009	87.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	**0.0154**	NA
MW-19S	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.0015	**0.246**	<0.010	**0.0245**	<0.0050
MW-19S	7/15/2015	742.0	<0.0050	<0.0050	<0.0050	<0.0015	0.0388	<0.010	**0.042**	<0.0050
MW-19S	3/13/2018	--	Insufficient water to collect sample							
MW-19D	8/12/2003	--	**0.014**	0.018	0.008	0.018	NA	NA	NA	NA
MW-19D	10/31/2003	--	**0.061**	0.059	0.012	0.094	NA	NA	NA	NA
MW-19D	2/18/2004	--	**0.061**	0.041	0.003	0.066	0.047	<0.0050	**87.2**	<0.0050
MW-19D	9/9/2004	--	**0.243**	0.252	0.060	0.327	<0.0050	NA	< 0.01	NA
MW-19D	8/1/2006	--	**0.076**	0.106	0.029	0.151	NA	NA	NA	NA
MW-19D	7/25/2007	--	**0.140**	0.165	0.053	0.177	NA	NA	NA	NA
MW-19D	11/18/2008	29.5	**0.0624**	0.0408	0.005	0.0388	<0.010	NA	<0.0050	NA
MW-19D	12/17/2009	308.0	**0.151**	0.247	0.0577	0.373	<0.010	NA	<0.0050	NA
MW-19D	12/16/2010	825.0	**0.0998**	0.191	0.0567	0.291	<0.010	<0.010	<0.0050	<0.0050
MW-19D	7/15/2015	8.4	**0.0196**	0.0406	0.0168	0.0672	<0.010	NA	<0.0050	NA
MW-19D	3/13/2018	28.3	**0.108**	0.228	0.092	0.389	<0.010	<0.010	<0.0050	<0.0050
MW-20S	11/13/2003	--	**0.018**	0.007	0.013	0.022	NA	NA	NA	NA
MW-20S	2/19/2004	--	0.003	0.00053 J	0.002	0.0019 J	<0.0050	<0.0050	**0.094**	<0.0050
MW-20S	11/18/2008	--	**0.0098**	0.0014	0.0058	0.0053	0.0143	NA	**0.177**	NA
MW-20S	12/16/2009	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	**0.0494**	NA
MW-20S	12/14/2010	--	**0.0172**	<0.0050	0.005	<0.015	<0.010	<0.010	**0.045**	<0.0050
MW-20S	12/16/2011	853.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	**0.0195**	<0.0050
MW-20S	7/14/2015	469.0	<0.0050	<0.0050	<0.0050	<0.015	0.011	<0.010	**0.0633**	<0.0050
MW-20S	3/15/2018	212.0	<0.0081	<0.0050	0.0064	<0.015	<0.010	<0.010	**0.0257**	<0.0050
MW-20D	11/13/2003	--	**0.158**	0.164	0.146	0.343	NA	NA	NA	NA
MW-20D	2/18/2004	--	**0.346**	0.631	0.384	1.070	0.008	0.005	<0.0050	<0.0050
MW-20D	9/10/2004	--	**0.155**	0.343	0.198	0.525	<0.0050	NA	<0.0050	NA
MW-20D	8/1/2006	--	**0.123**	0.164	0.134	0.322	NA	NA	NA	NA
MW-20D	7/26/2007	--	**0.085**	0.076	0.135	0.299	NA	NA	NA	NA
MW-20D	11/18/2008	2.2	**0.0426**	0.0289	0.0613	0.115	<0.010	NA	<0.010	NA
MW-20D	12/17/2009	0.0	**0.0957**	0.0661	0.0988	0.213	<0.010	NA	<0.0050	NA
MW-20D	12/21/2010	40.3	**0.0257**	0.0205	0.0758	0.15	<0.010	NA	<0.0050	NA
MW-21S	11/13/2003	--	0.001	0.002	0.002	0.004	NA	NA	NA	NA
MW-21S	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	0.022	<0.0050	**0.076**	<0.0050
MW-21S	9/10/2004	--	<.001	<.002	<.002	<.006	<0.0050	NA	<0.0050	NA
MW-21S	8/2/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-21S	7/26/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-21S	11/18/2008	--	<0.0010	<0.0010	<0.0010	<0.003	0.0113	NA	<0.010	NA
MW-21S	12/16/2009	--	<0.0050	<0.0050	<0.0050	<0.015	**0.0683**	NA	0.0108	NA
MW-21S	12/14/2010	--	<0.0050	<0.0050	<0.0050	<0.015	0.041	NA	0.0062	NA
MW-21S	7/14/2015	125.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0097	<0.0050
MW-21S	4/9/2018	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-21D	11/13/2003	--	**0.037**	0.079	0.181	0.461	NA	NA	NA	NA
MW-21D	2/18/2004	--	**0.058**	0.071	0.178	0.460	<0.0050	<0.0050	<0.0050	<0.0050
MW-21D	8/2/2006	--	**0.029**	0.019	0.087	0.200	NA	NA	NA	NA
MW-21D	7/26/2007	--	**0.030**	0.013	0.088	0.185	NA	NA	NA	NA
MW-21D	11/18/2008	2.1	**0.0217**	0.0124	0.0785	0.16	<0.010	NA	<0.010	NA

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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-21D	12/17/2009	167.0	**0.0192**	0.0191	0.0779	0.176	<0.010	<0.010	<0.0050	<0.0050
MW-21D	12/21/2010	305.0	**0.0286**	0.0289	0.0846	0.186	<0.010	<0.010	0.007	<0.0050
MW-22D	11/13/2003	--	**0.036**	0.031	0.018	0.043	NA	NA	NA	NA
MW-22D	2/18/2004	--	**0.007**	0.007	0.003	0.008	<0.0050	<0.0050	<0.0050	<0.0050
MW-22D	9/10/2004	--	**0.024**	0.020	0.011	0.035	<0.0050	NA	<0.0050	NA
MW-22D	8/2/2006	--	**0.189**	0.279	0.107	0.318	NA	NA	NA	NA
MW-22D	7/26/2007	--	0.001	0.004	0.004	0.010	NA	NA	NA	NA
MW-22D	11/18/2008	3.7	**0.01**	0.0229	0.0156	0.0405	<0.010	NA	<0.0050	NA
MW-22D	12/17/2009	>1000	**0.0186**	0.0229	0.0184	0.0643	**0.0702**	<0.010	**0.0532**	<0.0050
MW-22D	12/21/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-22D	7/15/2015	34.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-22D	3/15/2018	3.6	<0.0050	0.0105	0.0122	0.0226	<0.010	NA	<0.0050	NA
MW-23D	11/13/2003	--	**0.377**	0.360	0.177	0.394	NA	NA	NA	NA
MW-23D	2/18/2004	--	**0.376**	0.373	0.174	0.404	0.011	<0.0050	**0.086**	<0.0050
MW-23D	9/10/2004	--	**0.467**	0.463	0.203	0.474	0.005	NA	<0.0050	NA
MW-23D	8/2/2006	--	**0.147**	0.178	0.075	0.157	NA	NA	NA	NA
MW-23D	7/26/2007	--	**0.228**	0.249	0.099	0.223	NA	NA	NA	NA
MW-23D	11/18/2008	12.2	**0.08**	0.104	0.0399	0.107	<0.010	NA	<0.0050	NA
MW-23D	12/16/2009	3.6	**0.0669**	0.0911	0.0785	0.116	<0.010	NA	<0.0050	NA
MW-23D	12/17/2010	35.3	**0.0258**	0.268	0.0163	0.0401	<0.010	NA	<0.0050	NA
MW-23D	12/16/2011	76.5	**0.0509**	0.0605	0.0554	0.117	<0.010	<0.010	<0.0050	<0.0050
MW-23D	7/16/2015	--	**0.0452**	0.0168	0.0545	0.105	<0.010	<0.010	<0.0050	<0.0050
MW-23D	3/15/2018	32	**0.626**	0.056	0.114	0.231	<0.010	<0.010	<0.0050	<0.0050
MW-24A	11/17/2008	--	Not Sampled do the presence of Free-product							
MW-24A	3/3/2009	--	**0.353**	0.476	0.195	0.544	<0.010	<0.010	<0.010	<0.010
MW-24A	12/17/2009	16.4	**0.275**	0.431	0.169	0.468	<0.010	NA	<0.0050	NA
MW-24A	12/21/2010	12.6	**0.341**	0.483	0.186	0.517	<0.010	NA	<0.0050	NA
MW-24A	3/11/2011	48.8	**0.431**	0.643	0.228	0.639	<0.010	<0.010	<0.0050	<0.0050
MW-24A	6/24/2011	--	**0.287**	0.432	0.168	0.471	<0.010	<0.010	<0.0050	<0.0050
MW-24A	9/28/2011	26.7	**0.386**	0.608	0.189	0.533	<0.010	<0.010	<0.0050	<0.0050
MW-25A	11/18/2008	70.9	0.0047 J	0.0037 J	0.0067	0.0087 J	<0.010	NA	<0.010	NA
MW-25A	12/15/2009	97.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-25A	12/17/2010	>1000	**0.0641**	0.0404	0.0176	0.0315	<0.010	<0.010	0.0062	<0.0050
MW-25A	3/7/2011	89.1	**0.736**	0.0407	0.0224	0.0428	<0.010	<0.010	<0.0050	<0.0050
MW-25A	6/23/2011	--	**0.177**	0.0707	0.0263	<0.075	<0.010	<0.010	<0.0050	<0.0050
MW-25A	9/28/2011	>1000	**0.175**	0.0963	0.0433	0.0938	<0.010	<0.010	<0.0050	<0.0050
MW-25A	12/16/2011	55.8	**0.0666**	0.0432	0.0267	0.0511	<0.010	<0.010	<0.0050	<0.0050
MW-25A	4/4/2012	68.5	**0.0057**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-25A	7/10/2012	31.6	**0.0691**	0.0151	0.0201	0.0198	<0.010	<0.010	<0.0050	<0.0050
MW-25A	10/3/2012	18.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-25A	7/14/2015	105.0	**0.0118**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-25A	3/13/2018	13.8	**0.072**	0.0351	0.0202	0.0437	<0.010	<0.010	<0.0050	<0.0050
MW-26A	11/18/2008	--	0.002	0.0029	0.0019 J	0.0038 J	0.0118	NA	0.0085	NA
MW-26A	12/16/2009	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-26A	12/16/2010	6.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-26A	3/7/2011	10.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-26A	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-26A	9/28/2011	26.6	**0.0074**	0.0188	<0.0050	0.0171	<0.010	<0.010	<0.0050	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name	Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-26A	12/14/2011	50.0	**0.0131**	0.0275	0.0085	0.0287	<0.010	<0.010	<0.0050	<0.0050
MW-26A	4/4/2012	151.0	**0.0222**	0.074	0.0306	0.101	<0.010	<0.010	<0.0050	<0.0050
MW-26A	7/13/2012	18.2	**0.0259**	0.0986	0.0504	0.155	0.0145	<0.010	0.0121	<0.0050
MW-26A	10/2/2012	175.0	**0.0286**	0.106	0.0599	0.222	0.0109	<0.010	<0.0050	<0.0050
MW-27A	11/17/2008	--	Not Sampled do the presence of Free-product							
MW-27A	3/3/2009	--	**0.167**	0.308	0.167	0.478	<0.010	<0.010	<0.010	<0.010
MW-27A	12/17/2009	14.9	**0.25**	0.443	<0.25	<0.75	<0.010	NA	<0.0050	NA
MW-27A	4/15/2010	101.0	**0.208**	0.436	0.204	0.57	<0.010	<0.010	<0.010	<0.010
MW-27A	7/15/2015	--	Converted to RW-17							
MW-28A	2/12/2009	--	**0.0089**	0.0058	0.0055	0.005	<0.010	NA	<0.010	NA
MW-28A	8/5/2009	5.2	0.0028	0.0016	0.0011	<0.0030	<0.010	NA	<0.0050	NA
MW-28A	6/16/2010	9.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28A	9/21/2010	0.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28A	3/8/2011	43.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	9/27/2011	10.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28A	12/15/2011	12.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28A	4/5/2012	0.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	7/11/2012	52.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	10/2/2012	2.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	7/16/2015	19.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28A	3/14/2018	10.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28B	2/12/2009	--	**0.069**	0.0015	0.0476	0.0344	0.0258	NA	**0.0367**	NA
MW-28B	8/5/2009	1.1	**0.0951**	0.0017	0.0743	0.0533	<0.010	NA	<0.0050	NA
MW-28B	12/16/2009	0.0	**0.0923**	<0.0050	0.0633	0.0428	<0.010	NA	<0.0050	NA
MW-28B	6/16/2010	14.9	**0.0849**	<0.0050	0.0133	0.015	<0.010	NA	<0.0050	NA
MW-28B	9/21/2001	0.1	**0.0917**	<0.0050	0.0499	0.0428	<0.010	NA	<0.0050	NA
MW-28B	12/15/2010	36.4	**0.0842**	<0.010	0.0512	0.0406	<0.010	<0.010	<0.0050	<0.0050
MW-28B	3/8/2011	53.2	**0.0787**	<0.0050	0.019	0.0283	<0.010	<0.010	<0.0050	<0.0050
MW-28B	6/22/2011	--	**0.0757**	<0.0050	0.0071	0.0155	<0.010	<0.010	<0.0050	<0.0050
MW-28B	9/27/2011	4.1	**0.0889**	<0.0050	0.037	0.0387	<0.010	NA	<0.0050	NA
MW-28B	12/13/2011	15.7	**0.0847**	<0.0050	<0.0050	<0.0015	<0.010	NA	<0.0050	NA
MW-28B	4/5/2012	16.0	**0.0749**	<0.0050	0.0132	0.017	<0.010	NA	<0.0050	NA
MW-28B	7/11/2012	4.6	**0.0923**	<0.0050	0.0404	0.0415	<0.010	<0.010	<0.0050	<0.0050
MW-28B	10/2/2012	7.5	**0.0913**	<0.0050	0.0176	0.0314	<0.010	NA	<0.0050	NA
MW-28B	7/16/2015	0.0	**0.0428**	<0.0050	<0.0050	<0.0015	<0.010	<0.010	<0.0050	<0.0050
MW-28B	3/14/2018	1.2	**0.0647**	<0.0050	0.0485	0.0483	<0.010	<0.010	<0.0050	<0.0050
MW-28C	2/12/2009	--	<0.0010	<0.0010	<0.0010	<0.003	<0.010	NA	<0.010	NA
MW-28C	8/5/2009	4.7	<0.0010	<0.0010	<0.0010	<0.003	<0.010	NA	<0.0050	NA
MW-28C	12/16/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	6/16/2010	8.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	9/21/2010	0.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	12/15/2010	21.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	3/8/2011	14.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28C	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28C	9/27/2011	7.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	12/13/2011	9.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-28C	4/5/2012	120.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28C	7/10/2012	2.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name	Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-28C	10/2/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28C	7/16/2015	6.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-28C	3/14/2018	14.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	2/12/2009	107.8	0.0019	0.0022	0.0019	0.0059	0.0278	NA	**0.0172**	NA
MW-29A	8/5/2009	5.7	0.0018	0.0012	0.00098 J	0.003	<0.010	NA	<0.0050	NA
MW-29A	12/15/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-29A	6/17/2010	104.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-29A	9/21/2010	0.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-29A	3/11/2011	39.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-29A	9/30/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	12/14/2011	22.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	7/13/2012	25.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-29A	10/4/2012	53.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	7/17/2015	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29A	3/26/2018		<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-29B	3/3/2009	--	**0.371**	0.423	0.203	0.558	**0.0702**	**0.0613**	<0.010	<0.010
MW-29B	8/5/2009	31.4	**0.158**	0.264	0.163	0.430	0.0399	NA	<0.0050	NA
MW-29B	12/17/2009	27.8	**0.0932**	0.17	0.119	0.315	0.0358	NA	<0.0050	NA
MW-29B	6/17/2010	--	**0.1**	0.193	0.16	0.410	0.0129	0.0364	0.0171	<0.0050
MW-29B	9/21/2010	0.2	**0.0860**	0.146	0.125	0.350	0.0437	0.0401	<0.0050	<0.0050
MW-29B	12/21/2010	30.8	**0.1370**	0.193	0.155	0.378	0.0445	NA	<0.0050	NA
MW-29B	3/11/2011	64.7	**0.1040**	0.191	0.146	0.394	0.0435	0.0403	<0.0050	<0.0050
MW-29B	6/24/2011	--	**0.1200**	0.221	0.176	0.443	**0.0521**	0.042	<0.0050	<0.0050
MW-29B	9/28/2011	82.3	**0.1340**	0.231	0.192	0.457	**0.05**	0.0498	<0.0050	<0.0050
MW-29B	7/15/2015	316.0	**0.1130**	0.239	0.171	0.501	**0.0785**	**0.0731**	<0.0050	<0.0050
MW-30A	11/4/2009	70.4	**0.315**	0.253	0.171	0.359	<0.010	<0.010	<0.010	<0.010
MW-30A	12/16/2009	263.0	**0.273**	0.204	0.149	0.322	<0.010	NA	<0.0050	NA
MW-30A	6/16/2010	74.8	**0.149**	0.1	0.0824	0.189	<0.010	NA	<0.0050	NA
MW-30A	9/23/2010	104.0	**0.307**	<0.25	<0.25	<0.75	<0.010	<0.010	<0.0050	<0.0050
MW-30A	12/16/2010	>1000	**0.244**	0.12	0.159	0.34	<0.010	<0.010	<0.0050	<0.0050
MW-30A	3/8/2011	24.0	**0.265**	0.0759	0.144	0.3	<0.010	<0.010	<0.0050	<0.0050
MW-30A	6/24/2011	--	**0.208**	0.0349	0.113	0.252	<0.010	NA	<0.0050	NA
MW-30A	9/30/2011	8.7	**0.169**	0.0343	0.076	0.17	<0.010	<0.010	<0.0050	<0.0050
MW-30A	12/16/2011	84.3	**0.262**	<0.050	0.178	0.39	<0.010	<0.010	<0.0050	<0.0050
MW-30A	4/4/2012	25.0	**0.192**	<0.025	0.116	0.256	<0.010	<0.010	<0.0050	<0.0050
MW-30A	7/12/2012	15.2	**0.226**	0.0658	0.161	0.349	<0.010	<0.010	<0.0050	<0.0050
MW-30A	10/3/2012	256.0	**0.241**	0.0428	0.161	0.327	<0.010	<0.010	<0.0050	<0.0050
MW-30A	7/16/2015	0.0	**0.122**	0.0424	0.0599	0.126	<0.010	<0.010	<0.0050	<0.0050
MW-30A	3/12/2018	1.2	**0.137**	0.0529	0.128	0.284	<0.010	<0.010	<0.0050	<0.0050
MW-30B	11/4/2009	13.0	0.00088 J	0.0009 J	0.00054 J	<0.0030	<0.020	<0.020	<0.010	<0.010
MW-30B	12/16/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-30B	6/16/2010	5.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-30B	9/23/2010	118.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-30B	12/16/2010	29.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-30B	3/8/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-30B	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-30B	9/30/2011	16.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-30B	12/16/2011	0.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA

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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-30B	4/4/2012	26.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-30B	7/12/2012	9.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-30B	10/3/2012	12.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-30B	7/16/2015	18.5	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050	<0.0050
MW-30B	3/12/2018	33.2	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050	<0.0050
MW-31A	11/4/2009	>1000	<0.00100	<0.00100	<0.00100	<0.0030	**0.0527**	<0.010	**0.061**	<0.010
MW-31A	12/15/2009	1025.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31A	6/18/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	9/21/2010	0.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31A	12/17/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0148	<0.010	**0.0205**	<0.0050
MW-31A	3/8/2011	27.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	9/30/2011	57.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	12/16/2011	542.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	4/4/2012	144.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	7/13/2012	60.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	10/3/2012	151.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31A	7/16/2015	332.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	**0.0157**	<0.0050
MW-31A	3/14/2018	1.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	11/4/2009	755.0	0.00047 J	0.00042 J	<0.00100	<0.0030	0.011	<0.010	<0.010	<0.010
MW-31B	12/15/2009	93.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31B	6/18/2010	9.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31B	9/21/2010	0.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31B	3/8/2011	58.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	9/30/2011	481.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	12/16/2011	35.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	4/4/2012	722.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0054	<0.0050
MW-31B	7/13/2012	14.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	10/3/2012	154.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	7/16/2015	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31B	3/14/2018	5.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31C	11/4/2009	>1000	<0.00100	0.00054 J	<0.00100	<0.0030	**0.116**	<0.010	**0.115**	<0.010
MW-31C	12/15/2009	35.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-31C	6/18/2010	79.3	<0.0050	<0.0050	<0.0050	<0.015	**0.0796**	**0.0734**	<0.0050	<0.0050
MW-31C	9/21/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	**0.0622**	NA	<0.0050	NA
MW-31C	12/17/2010	29.4	<0.0050	<0.0050	<0.0050	<0.015	**0.0504**	NA	<0.0050	NA
MW-31C	3/8/2011	3.0	<0.0050	<0.0050	<0.0050	<0.015	0.0368	0.0395	<0.0050	<0.0050
MW-31C	6/24/2011	--	<0.0050	<0.0050	<0.0050	<0.015	0.0368	0.0384	<0.0050	<0.0050
MW-31C	9/30/2011	20.7	<0.0050	<0.0050	<0.0050	<0.015	0.0252	0.0276	<0.0050	<0.0050
MW-31C	12/16/2011	243.0	<0.0050	<0.0050	<0.0050	<0.015	0.0219	0.022	<0.0050	<0.0050
MW-31C	4/4/2012	44.1	<0.0050	<0.0050	<0.0050	<0.015	0.0146	0.0153	<0.0050	<0.0050
MW-31C	7/13/2012	100.0	<0.0050	<0.0050	<0.0050	<0.015	0.0137	0.0112	<0.0050	<0.0050
MW-31C	10/3/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-31C	7/16/2015	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.0158	0.0154	<0.0050	<0.0050
MW-31C	3/14/2018	12.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	11/4/2009	318.0	<0.00100	<0.00100	<0.00100	<0.0030	<0.010	<0.010	<0.010	<0.010
MW-32A	12/16/2009	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-32A	6/16/2010	32.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-32A	9/21/2010	0.2	**0.0282**	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-32A	12/15/2010	8.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-32A	3/7/2011	59.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	9/28/2011	19.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-32A	12/13/2011	17.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-32A	4/5/2012	55.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	7/10/2012	0.0	**0.0161**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	10/3/2012	6.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	7/16/2015	379.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32A	3/14/2018	80.2	<0.0050	<0.0050	<0.0050	<0.015	0.0199	<0.010	0.0136	<0.0050
MW-32B	5/2/2012	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0122	<0.0050
MW-32B	7/11/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32B	10/3/2012	83.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32B	7/16/2015	4.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32B	3/14/2018	4.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32C	5/2/2012	97.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32C	7/11/2012	114.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32C	10/3/2012	109.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32C	7/16/2015	5.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-32C	3/14/2018	33.400	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	11/23/2009	16.1	<0.0050	<0.0050	<0.0050	<0.015	0.0127	<0.010	<0.010	<0.010
MW-33A	12/17/2009	152.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-33A	3/14/2010	262.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-33A	6/15/2010	238.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	9/20/2010	0.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	12/13/2010	162.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	3/7/2011	77.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	6/21/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	9/26/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33A	7/26/2013	--	Well Abandoned Due to Non Detections							
MW-33B	11/23/2009	187.0	<0.0050	<0.0050	<0.0050	<0.015	0.0157	<0.010	<0.010	<0.010
MW-33B	12/17/2009	265.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	3/14/2010	309.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	0.0055	NA
MW-33B	6/15/2010	174.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	9/20/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	12/13/2010	12.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	3/7/2011	18.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	6/21/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	9/26/2011	2.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33B	7/26/2013	--	Well Abandoned Due to Non Detections							
MW-33C	11/23/2009	62.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-33C	12/17/2009	345.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33C	3/14/2010	478.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-33C	6/15/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.005	<0.0050
MW-33C	9/20/2010	0.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33C	12/13/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0058	<0.0050
MW-33C	3/7/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-33C	6/21/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33C	9/26/2011	521.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-33C	7/26/2013	--	Well Abandoned Due to Non Detections							
MW-34A	11/23/2009	1697.0	0.0153	0.0194	0.029	0.092	<0.010	<0.010	0.0118	<0.010
MW-34A	12/16/2009	251.0	**0.025**	0.0218	0.0328	0.094	0.0129	<0.010	0.0139	<0.0050
MW-34A	6/16/2010	108.0	**0.0500**	0.0243	0.0402	0.095	<0.010	<0.010	<0.0050	<0.0050
MW-34A	9/23/2010	104.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-34A	12/16/2010	>1000	**0.0475**	<0.025	0.0336	0.0863	0.0263	<0.010	**0.0159**	<0.0050
MW-34A	3/7/2011	250.0	**0.0551**	0.0231	0.0434	0.101	<0.010	<0.010	<0.0050	<0.0050
MW-34A	6/23/2011	--	**0.0521**	0.0175	0.039	0.0876	<0.010	<0.010	<0.0050	<0.0050
MW-34A	9/28/2011	420.0	**0.0755**	0.0261	0.0519	0.129	<0.010	<0.010	<0.0050	<0.0050
MW-34A	12/15/2011	123.0	**0.0696**	0.0231	0.0529	0.124	0.0128	<0.010	0.0061	<0.0050
MW-34A	4/4/2012	114.0	**0.0767**	0.0368	0.0639	0.156	<0.010	<0.010	<0.0050	<0.0050
MW-34A	7/12/2012	0.0	**0.0727**	0.0118	0.0548	0.121	0.0344	<0.010	0.0146	<0.0050
MW-34A	10/2/2012	587.0	**0.0797**	0.0195	0.0686	0.124	<0.010	<0.010	<0.0050	<0.0050
MW-34A	7/16/2015	>1000	**0.178**	0.196	0.124	0.319	**0.159**	0.0103	**0.127**	<0.0050
MW-34A	3/15/2018	>1000	**0.2**	0.216	0.157	0.363	<0.10	<0.10	<0.0050	<0.0050
MW-35A	2/24/2010	31.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-35A	6/18/2010	16.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	9/22/2010	54.0	**0.0078**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	12/22/2010	285.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-35A	3/10/2011	96.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	9/27/2011	25.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	12/16/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	4/6/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	7/12/2012	5.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	10/4/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	7/14/2015	30.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35A	3/16/2018	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	2/25/2010	23.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-35B	6/18/2010	7.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	9/22/2010	37.0	**0.018**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	12/22/2010	5.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	3/10/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	9/27/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	12/16/2011	1.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	4/6/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	7/12/2012	477.0	**0.0086**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	10/4/2012	19.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	7/14/2015	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35B	3/16/2018	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	2/25/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.305	<0.010	**0.0469**	<0.010
MW-35C	6/18/2010	182.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	9/22/2010	122.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	12/22/2010	438.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	3/10/2011	195.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050

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Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-35C	9/27/2011	395.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	12/16/2011	226.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	4/6/2012	49.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	7/12/2012	58.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	10/4/2012	319.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-35C	7/14/2015	1000+	<0.0050	<0.0050	<0.0050	<0.015	**0.0103**	<0.010	0.0063	<0.0050
MW-35C	3/16/2018	46.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	2/25/2010	55.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	6/18/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	9/22/2010	17.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	12/20/2010	41.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-36A	3/10/2011	11.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	9/27/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	12/14/2011	16.2	<0.0050	0.012	0.0122	0.0338	<0.010	<0.010	<0.0050	<0.0050
MW-36A	4/6/2012	71.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	7/12/2012	97.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	10/3/2012	203.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	7/14/2015	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-36A	3/28/2018	24.3	<0.0050	0.0103	0.012	0.026	<0.010	<0.010	<0.0050	<0.0050
MW-36B	2/25/2010	110.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-36B	6/18/2010	49.2	<0.0050	<0.0050	<0.0050	<0.015	0.0109	<0.010	<0.0050	<0.0050
MW-36B	9/22/2010	1.9	<0.0050	0.0175	0.0212	0.055	0.0124	<0.010	<0.0050	<0.0050
MW-36B	12/20/2010	60.1	**0.0074**	0.0657	0.0799	0.2	0.0163	0.0123	<0.0050	<0.0050
MW-36B	3/10/2011	26.5	**0.005**	0.0418	0.0389	0.134	<0.010	<0.010	<0.0050	<0.0050
MW-36B	6/24/2011	--	**0.0133**	0.103	0.102	0.261	0.0203	0.0195	<0.0050	<0.0050
MW-36B	9/27/2011	40.3	**0.0111**	0.0813	0.0833	0.213	<0.010	<0.010	<0.0050	<0.0050
MW-36B	7/14/2015	DNAPL In Well - Did Not Sample			--	--	--	--	--	--
MW-36C	2/25/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.0452	<0.010	**0.0451**	<0.010
MW-36C	6/18/2010	--	**0.0533**	0.139	0.0878	0.266	<0.010	<0.010	<0.0050	<0.0050
MW-36C	9/22/2010	93.4	**0.0662**	0.174	0.0822	0.255	<0.010	<0.010	<0.0050	<0.0050
MW-36C	12/20/2010	53.2	**0.0575**	0.143	0.0742	0.218	<0.010	<0.010	<0.0050	<0.0050
MW-36C	3/10/2011	71.4	**0.0652**	0.165	0.0807	0.248	<0.010	<0.010	<0.0050	<0.0050
MW-36C	6/24/2011	--	**0.0305**	0.0735	0.0321	0.107	<0.010	<0.010	<0.0050	<0.0050
MW-36C	9/27/2011	94.3	**0.0485**	0.134	0.0621	0.193	<0.010	<0.010	<0.020	<0.020
MW-36C	7/14/2015	DNAPL In Well - Did Not Sample			--	--	--	--	--	--
MW-36C	3/28/2018	3.8	**0.0175**	0.075	0.0434	0.163	<0.010	<0.010	<0.0050	<0.0050
MW-37A	2/25/2010	60.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-37A	6/16/2010	210.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	9/23/2010	111.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	12/17/2010	392.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-37A	3/8/2011	95.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	9/28/2011	609.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	12/16/2011	800.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	4/4/2012	205.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	7/11/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.0342	<0.010	**0.0804**	<0.0050
MW-37A	10/2/2012	>800	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37A	7/15/2015	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0173	<0.010	**0.0199**	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-37A	3/16/2018	660.0	<0.0050	<0.0050	<0.0050	<0.015	0.0181	<0.010	0.0053	<0.0050
MW-37B	2/25/2010	60.2	**0.0897**	<0.0050	0.0431	0.0159	<0.010	NA	<0.010	NA
MW-37B	6/16/2010	489.0	**0.075**	<0.0050	0.0338	0.0173	<0.010	<0.010	0.0079	<0.0050
MW-37B	9/23/2010	138.0	**0.095**	<0.0050	0.0503	0.0205	<0.010	NA	<0.0050	NA
MW-37B	12/17/2010	146.0	**0.0918**	<0.0050	0.0327	0.0154	<0.010	NA	<0.0050	NA
MW-37B	3/9/2011	49.6	**0.0893**	<0.0050	0.025	0.0158	<0.010	<0.010	<0.0050	<0.0050
MW-37B	6/23/2011	--	**0.0769**	<0.0050	0.0155	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37B	9/28/2011	0.0	**0.0698**	<0.0050	0.0111	<0.015	<0.010	<0.010	0.0072	<0.0050
MW-37B	12/16/2011	>800.0	**0.0803**	<0.0050	0.0076	<0.015	0.0163	<0.010	**0.0244**	<0.0050
MW-37B	4/4/2012	>800.0	**0.0728**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37B	7/11/2012	522.0	**0.0875**	<0.0050	0.0322	<0.015	<0.010	<0.010	0.0082	<0.0050
MW-37B	10/2/2012	494.0	**0.08**	<0.0050	0.0051	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37B	7/15/2015	583.0	**0.0555**	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0089	<0.0050
MW-37B	3/16/2018	512.0	**0.0595**	<0.0050	<0.0050	<0.15	<0.010	<0.010	<0.0050	<0.0050
MW-37C	9/12/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-37C	12/16/2011	44.1	**0.0057**	0.0217	0.0112	0.0372	<0.010	NA	<0.0050	NA
MW-37C	4/4/2012	40.0	**0.0129**	0.0499	0.0218	0.0739	<0.010	<0.010	<0.0050	<0.0050
MW-37C	7/11/2012	21.0	**0.0131**	0.059	0.0265	0.0869	<0.010	<0.010	<0.0050	<0.0050
MW-37C	10/2/2012	15.5	**0.0162**	0.0865	0.0413	0.14	<0.010	NA	<0.0050	NA
MW-37C	7/15/2015	0.0	**0.005**	0.0284	0.0171	0.061	<0.010	<0.010	<0.0050	<0.0050
MW-37C	3/15/2018	53.2	**0.005**	0.005	0.005	0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38A	4/14/2010	903.0	**0.0779**	0.0548	0.0881	0.223	<0.010	<0.010	<0.010	<0.010
MW-38A	6/17/2010	97.1	**0.0753**	0.0329	0.089	0.182	<0.010	NA	<0.0050	NA
MW-38A	9/22/2010	0.4	**0.138**	0.114	0.127	0.289	<0.010	NA	<0.0050	NA
MW-38A	12/17/2010	26.2	**0.108**	0.103	0.123	0.27	<0.010	NA	<0.0050	NA
MW-38A	3/8/2011	0.0	**0.0747**	0.05	0.102	0.22	<0.010	<0.010	<0.0050	<0.0050
MW-38A	6/23/2011	--	**0.0875**	0.0275	0.0912	0.205	<0.010	<0.010	<0.0050	<0.0050
MW-38A	9/28/2011	2.1	**0.145**	0.052	0.14	0.301	<0.010	NA	<0.0050	NA
MW-38A	12/13/2011	26.8	**0.111**	0.0204	0.118	0.248	<0.010	NA	<0.0050	NA
MW-38A	4/5/2012	2.2	**0.117**	0.0127	0.126	0.268	<0.010	<0.010	<0.0050	<0.0050
MW-38A	7/10/2012	0.8	**0.0992**	0.0487	0.126	0.274	<0.010	<0.010	<0.0050	<0.0050
MW-38A	10/3/2012	7.3	**0.11**	0.0139	0.126	0.259	<0.010	NA	<0.0050	NA
MW-38A	7/14/2015	0.0	**0.0699**	<0.010	0.0755	0.0941	<0.010	<0.010	<0.0050	<0.0050
MW-38A	3/13/2018	1.2	**0.0701**	0.0126	0.109	0.224	<0.010	<0.010	<0.0050	<0.0050
MW-38B	4/14/2010	19.3	**0.0811**	0.015	0.0682	0.142	<0.010	<0.010	<0.010	<0.010
MW-38B	6/17/2010	6.2	**0.0566**	0.0104	0.045	0.113	0.0105	NA	<0.0050	NA
MW-38B	9/22/2010	0.0	**0.107**	0.0941	0.107	0.238	<0.0050	NA	<0.0050	NA
MW-38B	12/17/2010	7.2	**0.097**	0.0899	0.118	0.257	<0.0050	NA	<0.0050	NA
MW-38B	3/8/2011	0.0	**0.102**	0.0612	0.119	0.247	<0.010	<0.010	<0.0050	<0.0050
MW-38B	6/23/2011	--	**0.0863**	0.025	0.106	0.23	<0.010	NA	<0.0050	NA
MW-38B	9/28/2011	20.2	**0.114**	0.0345	0.121	0.257	<0.010	NA	<0.0050	NA
MW-38B	12/13/2011	15.5	**0.124**	0.014	0.119	0.283	<0.010	NA	<0.0050	NA
MW-38B	4/5/2012	58.5	**0.114**	0.0125	0.117	0.252	<0.010	<0.010	<0.0050	<0.0050
MW-38B	7/10/2012	0.2	**0.101**	0.0384	0.143	0.318	<0.010	<0.010	<0.0050	<0.0050
MW-38B	10/3/2012	83.7	**0.102**	0.0168	0.104	0.213	<0.010	<0.010	<0.0050	<0.0050
MW-38B	7/14/2015	0.0	**0.0771**	0.0099	0.0823	0.0948	<0.010	<0.010	<0.0050	<0.0050
MW-38B	3/13/2018	1.8	**0.0603**	0.0126	0.1	0.201	<0.010	<0.010	<0.0050	<0.0050
MW-38C	4/14/2010	739.0	<0.0050	<0.0050	<0.0050	<0.015	0.0102	NA	<0.010	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-38C	6/16/2010	11.6	<0.0050	<0.0050	<0.0050	<0.015	0.0149	NA	<0.0050	NA
MW-38C	9/22/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	12/15/2010	4.3	<0.0050	<0.0050	<0.0050	<0.015	0.0131	NA	<0.0050	NA
MW-38C	3/8/2011	12.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	9/28/2011	58.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	12/13/2011	672.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	4/5/2012	7.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	7/10/2012	30.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	10/3/2012	246.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	7/15/2015	229.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38C	3/13/2018	123.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	4/14/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	**0.0274**	NA	**0.018**	NA
MW-38D	6/17/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	9/22/2010	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	12/15/2010	27.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-38D	3/8/2011	15.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	9/28/2011	32.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	12/13/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-38D	4/5/2012	12.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	7/10/2012	5.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	10/3/2012	21.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	7/15/2015	4.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-38D	3/13/2018	29.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39A	4/14/2010	>1000	*<0.25*	0.54	0.252	<0.75	**0.0482**	NA	**0.0492**	NA
MW-39A	6/17/2010	--	**0.239**	0.457	0.183	0.548	<0.010	<0.010	<0.0050	<0.0050
MW-39A	9/23/2010	60.8	**0.275**	0.493	<0.25	<0.75	<0.010	<0.010	<0.0050	<0.0050
MW-39A	12/21/2010	26.8	**0.216**	0.357	0.147	0.426	<0.010	NA	<0.0050	NA
MW-39A	3/11/2011	81.4	**0.193**	0.394	0.172	0.499	<0.010	<0.010	<0.0050	<0.0050
MW-39A	6/24/2011	--	**0.0906**	0.241E[a]	0.139	0.411	<0.010	<0.010	<0.0050	<0.0050
MW-39A	9/28/2011	50.4	**0.275**	0.463	0.188	0.562	<0.010	<0.010	<0.0050	<0.0050
MW-39B	4/14/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0128	NA	<0.010	NA
MW-39B	6/17/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.045	<0.010	<0.0050	<0.0050
MW-39B	9/23/2010	252.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	12/15/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0052	<0.0050
MW-39B	3/8/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0089	<0.0050
MW-39B	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	9/28/2011	124.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	12/13/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	4/5/2012	378.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	7/12/2012	52.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	10/2/2012	65.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	7/15/2015	11.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-39B	3/14/2018	40.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	4/14/2010	762.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-40A	6/16/2010	47.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	9/23/2010	65.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	3/7/2011	238.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0075	<0.0050

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Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-40A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	9/27/2011	380.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	12/14/2011	104.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0057	<0.0050
MW-40A	4/3/2012	23.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40A	7/13/2012	39.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	10/4/2012	89.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40A	7/16/2015	232.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0083	<0.0050
MW-40A	3/16/2018	22.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	4/14/2010	314.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-40B	6/16/2010	92.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40B	9/23/2010	277.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	12/14/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0094	<0.0050
MW-40B	3/7/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	9/27/2011	93.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	12/14/2011	112.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	4/3/2012	99.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	7/13/2012	22.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40B	10/4/2012	14.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40B	7/16/2015	161.0	<0.0050	<0.0050	<0.0050	<0.015	0.0194	<0.010	<0.0050	<0.0050
MW-40B	3/16/2018	83.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40C	4/14/2010	21.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.010
MW-40C	6/16/2010	62.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40C	9/23/2010	0.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40C	12/17/2010	30.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40C	3/7/2011	27.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40C	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40C	9/28/2011	162.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-40C	12/14/2011	12.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40C	4/3/2012	2.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40C	7/13/2012	32.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.0050
MW-40C	10/4/2012	7.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-40C	7/16/2015	232.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.010	<0.0050
MW-40C	3/16/2018	160.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	12/15/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0329	<0.010	**0.0293**	<0.0050
MW-41A	3/8/2011	254.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	0.0129	NA	0.0122	NA
MW-41A	9/28/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.0106	<0.010	<0.0106	<0.0050
MW-41A	12/13/2011	472.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	4/5/2012	476.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	7/10/2012	244.0	<0.0050	<0.0050	<0.0050	<0.015	0.0223	<0.010	**0.0285**	<0.0050
MW-41A	10/3/2012	280.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	7/15/2015	1.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-41A	3/16/2018	903.0	<0.0050	<0.0050	<0.0050	<0.015	**0.0709**	<0.010	**0.0931**	<0.0050
MW-42A	12/15/2010	322.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	3/8/2011	42.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	9/28/2011	64.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	12/13/2011	26.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-42A	4/4/2012	31.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	7/10/2012	30.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	10/2/2012	74.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	7/15/2015	66.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42A	3/14/2018	8.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	12/15/2010	251.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	3/8/2011	139.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-42B	9/28/2011	72.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	12/13/2011	40.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-42B	4/4/2012	69.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	7/10/2012	3.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	10/2/2012	116.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	7/15/2015	30.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-42B	3/14/2018	6.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	12/15/2010	426.0	**0.0517**	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.007	<0.0050
MW-43A	3/8/2011	123.0	**0.0149**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	6/22/2011	--	**0.0226**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	9/28/2011	47.1	**0.0372**	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-43A	12/13/2011	288.0	**0.0282**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	4/5/2012	88.4	**0.0325**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	7/11/2012	46.5	**0.0401**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	10/2/2012	267.0	**0.0278**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	7/17/2015	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-43A	3/14/2018	161.0	**0.0116**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	12/22/2010	94.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	3/10/2011	64.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	6/23/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	9/27/2011	0.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	12/16/2011	151.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	4/6/2012	97.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	7/13/2012	11.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	10/4/2012	2.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	7/14/2015	65.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-44A	3/26/2018	4.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	12/22/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0133	<0.010	**0.0153**	<0.0050
MW-45A	3/10/2011	63.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	6/21/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	9/27/2011	44.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	12/15/2011	416.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	4/4/2012	17.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	7/12/2012	54.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	10/3/2012	136.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	7/14/2015	5.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45A	4/9/2018	41.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45B	12/22/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	**0.0607**	<0.010	**0.0999**	<0.0050
MW-45B	3/10/2011	784.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0081	<0.0050
MW-45B	6/21/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0289	<0.010	**0.0468**	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-45B	9/27/2011	109.0	<0.0050	<0.0050	<0.0050	<0.015	0.0289	<0.010	0.007	<0.0050
MW-45B	12/15/2011	46.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0063	<0.0050
MW-45B	4/4/2012	580.0	<0.0050	<0.0050	<0.0050	<0.015	0.0153	<0.010	**0.0247**	<0.0050
MW-45B	7/13/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.0146	<0.010	0.0146	<0.0050
MW-45B	10/3/2012	>800	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45B	7/14/2015	1000+	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45B	4/9/2018	482.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	12/22/2010	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0196	<0.010	**0.0293**	<0.0050
MW-45C	3/10/2011	138.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	6/22/2011	>1000	<0.0050	<0.0050	0.0077	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	9/27/2011	692.0	<0.0050	<0.0050	0.0081	<0.015	<0.010	<0.010	0.0067	<0.0050
MW-45C	12/15/2011	340.0	<0.010	<0.010	0.0173	<0.030	<0.010	<0.010	<0.0050	<0.0050
MW-45C	4/4/2012	217.0	<0.0050	<0.0050	0.0107	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	7/13/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	0.0303	<0.010	**0.076**	<0.0050
MW-45C	10/3/2012	285.0	<0.0050	<0.0050	0.0056	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	7/14/2015	196.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-45C	4/9/2018	862.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0059	<0.0050
MW-46A	12/22/2010	>1000	**0.0583**	0.09	0.0393	0.116	<0.010	<0.010	<0.0050	<0.0050
MW-46A	3/10/2011	>1000	**0.0458**	0.0726	0.0305	0.0926	<0.010	<0.010	<0.0050	<0.0050
MW-46A	6/22/2011	--	*<0.050*	0.0668	<0.050	<0.15	<0.010	<0.010	<0.0050	<0.0050
MW-46A	9/27/2011	231.0	**0.0462**	0.0608	0.0176	0.0788	<0.010	<0.010	<0.0050	<0.0050
MW-46A	12/15/2011	691.0	**0.077**	0.0605	0.0373	0.121	<0.010	<0.010	<0.0050	<0.0050
MW-46A	4/6/2012	244.0	**0.0615**	0.0411	0.0287	0.0898	<0.010	<0.010	<0.0050	<0.0050
MW-46A	7/11/2012	70.1	**0.0794**	0.0391	0.0406	0.127	<0.010	<0.010	<0.0050	<0.0050
MW-46A	10/2/2012	67.3	**0.0985**	0.0734	0.0499	0.148	<0.010	<0.010	<0.0050	<0.0050
MW-46A	7/15/2015	1000+	**0.0901**	0.054	0.0274	0.0967	<0.010	<0.010	<0.0050	<0.0050
MW-46A	3/16/2018	141.0	**0.0138**	0.0089	0.0093	0.0244	0.0101	<0.010	<0.0050	<0.0050
MW-47A	12/22/2010	482.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0057	<0.0050
MW-47A	3/10/2011	390.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	9/27/2011	362.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	12/14/2011	89.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	4/4/2012	158.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	7/11/2012	327.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0082	<0.0050
MW-47A	10/2/2012	36.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	7/15/2015	216.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-47A	3/28/2018	4.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-48A	1/11/2011	--	**0.0885**	0.197	0.0903	0.25	<0.010	<0.010	<0.0050	<0.0050
MW-48A	6/21/2011	--	**0.264**	0.466	0.169	0.55	<0.010	<0.010	<0.0050	<0.0050
MW-48A	9/26/2011	62.7	**0.186**	0.428	0.125	0.387	<0.010	<0.010	<0.0050	<0.0050
MW-48A	7/13/2015	450.0	**0.0317**	0.1	0.0442	0.158	**0.0156**	**0.0167**	<0.0050	<0.0050
MW-48A	3/12/2018	0.0	**0.164**	0.411	0.163	0.573	**0.02**	0.0247	<0.0050	<0.0050
MW-48B	1/11/2011	419.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-48B	6/21/2011	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-48B	9/26/2011	321.0	**0.0313**	0.0673	<0.025	<0.075	<0.010	<0.010	<0.0050	<0.0050
MW-48B	12/12/2011	37.4	**0.0348**	0.0789	0.0352	0.125	<0.010	<0.010	<0.0050	<0.0050
MW-48B	4/2/2012	39.8	<0.0050	0.0057	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-48B	7/9/2012	2.8	**0.0087**	0.017	0.0058	0.0187	<0.010	<0.010	<0.0050	<0.0050

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
		1996 VRP Tier II Non-Residential	--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-48B	10/1/2012		4.8	**0.0561**	0.113	0.0385	0.126	<0.010	<0.010	<0.0050	<0.0050
MW-48B	7/13/2015		92.0	**0.0078**	0.0111	0.0067	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-48B	3/12/2018		225	**0.0273**	0.0742	0.0285	0.0865	<0.010	<0.010	<0.0050	<0.0050
MW-49A	8/16/2011		>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.01	<0.0050
MW-49A	12/14/2011		17.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49A	4/3/2012		5.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49A	7/12/2012		16.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49A	10/4/2012		58.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49A	7/14/2015		0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49A	6/13/2017		Abandoned	--	--	--	--	--	--	--	--
MW-49B	8/16/2011		>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49B	12/14/2011		51.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49B	4/3/2012		23.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49B	7/12/2012		27.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49B	10/4/2012		107.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49B	7/14/2015		1000+	<0.0050	<0.0050	<0.0050	<0.015	0.0273	<0.010	**0.0541**	<0.0050
MW-49B	6/13/2017		Abandoned	--	--	--	--	--	--	--	--
MW-49C	8/16/2011		>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0109	<0.0050
MW-49C	12/14/2011		508.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49C	4/3/2012		262.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49C	7/12/2012		622.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	0.0196	**0.0204**	0.0084
MW-49C	10/4/2012		288.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-49C	7/15/2015		Damaged / Abandoned		--	--	--	--	--	--	--
MW-50A	8/17/2011		>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50A	12/15/2011		26.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-50A	4/5/2012		68.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50A	7/9/2012		19.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50A	10/1/2012		137.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50A	7/17/2015		1.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50A	3/26/2018		2.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50B	8/17/2011		562.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.008	<0.0050
MW-50B	12/15/2011		61.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50B	4/5/2012		<1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0126	<0.0050
MW-50B	7/9/2012		16.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50B	10/1/2012		127.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50B	7/17/2015		0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-50B	3/26/2018		1.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-51A	8/17/2011		155.0	**0.106**	0.196	0.0706	0.211	<0.010	<0.010	<0.0050	<0.0050
MW-51A	7/14/2015		DNAPL In Well - Did Not Sample			--	--	--	--	--	--
MW-51B	8/17/2011		197.0	<0.0050	<0.0050	<0.0050	0.017	<0.010	<0.010	<0.0050	<0.0050
MW-51B	12/15/2011		127.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-51B	4/6/2012		68.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-51B	7/12/2012		365.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	**0.016**	<0.0050
MW-51B	10/3/2012		18.8	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-51B	7/14/2015		17.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-51B	3/16/2018		76.2	**0.009**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050

Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-52A	8/17/2011	834.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	12/13/2011	700.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	4/5/2012	385.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	7/12/2012	22.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	10/2/2012	322.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	7/16/2015	65.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-52A	3/16/2018	381	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	9/12/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	12/15/2011	92.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	4/2/2012	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	7/9/2012	60.4	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	10/1/2012	>800	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53A	7/13/2015	625.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	*<0.025*	<0.0050	<0.0050
MW-53A	3/15/2018	531.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53B	9/12/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	**0.252**	<0.010	**0.312**	<0.0050
MW-53B	12/15/2011	>1000	<0.0050	<0.0050	<0.0050	<0.015	**0.549**	<0.010	**0.901**	<0.0050
MW-53B	4/2/2012	>1000	<0.0050	<0.0050	<0.0050	<0.015	**0.101**	<0.010	**0.160**	<0.0050
MW-53B	7/9/2012	428.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53B	10/1/2012	>1000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0073	<0.0050
MW-53B	7/13/2015	352.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-53B	3/15/2018	428.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-54A	5/2/2012	--	**0.18**	0.223	0.0749	0.217	<0.010	<0.010	<0.0050	<0.0050
MW-54B	5/2/2012	499.0	**0.0781**	0.0213	0.0671	0.0635	<0.010	<0.010	<0.0050	<0.0050
MW-54B	7/12/2012	36.3	**0.0949**	0.0357	0.0967	0.12	<0.010	<0.010	<0.0050	<0.0050
MW-54B	10/4/2012	188.0	**0.0894**	0.0149	0.0925	0.114	<0.010	<0.010	<0.0050	<0.0050
MW-54B	7/16/2015	>1000	**0.0765**	0.006	0.0498	0.0489	0.018	<0.010	<0.0050	<0.0050
MW-54B	4/9/2018	203.0	**0.07**	0.0253	0.0777	0.0721	<0.010	<0.010	<0.0050	<0.0050
MW-55A	5/2/2012	>1000	<0.0050	<0.0050	<0.0050	<0.015	0.0147	<0.010	**0.0285**	<0.0050
MW-55A	7/10/2012	739.0	<0.0050	<0.0050	<0.0050	<0.015	0.0153	<0.010	**0.0223**	<0.0050
MW-55A	10/3/2012	46.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	N/A	<0.0050	N/A
MW-55A	7/15/2015	8.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	N/A	<0.0050	N/A
MW-55A	3/13/2018	7.7	<0.0050	<0.0050	<0.0050	<0.015	<0.010	N/A	<0.0050	N/A
MW-55B	5/2/2012	509.0	**0.17**	0.167	0.111	0.248	<0.010	<0.010	<0.0050	<0.0050
MW-55B	7/10/2012	94.4	**0.264**	0.238	0.149	0.321	<0.010	<0.010	<0.0050	<0.0050
MW-55B	10/3/2012	18.5	**0.283**	0.224	0.175	0.346	<0.010	N/A	<0.0050	N/A
MW-55B	7/16/2015	0.0	**0.265**	0.0932	0.158	0.38	<0.010	<0.010	<0.0050	<0.0050
MW-55B	3/13/2018	10.1	**0.0702**	0.022	0.0397	0.0933	<0.010	<0.010	<0.0050	<0.0050
MW-56A	5/2/2012	621.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56A	7/11/2012	24.6	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56A	10/2/2012	41.9	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56A	7/15/2015	0.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56A	3/28/2018	10.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56B	5/2/2012	>1000	**0.0197**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56B	7/11/2012	800.0	**0.0405**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050

Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-56B	10/2/2012	17.4	**0.0426**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56B	7/15/2015	0.0	**0.0277**	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-56B	3/28/2018	6.1	**0.0484**	<0.0050	0.0116	0.0234	<0.010	<0.010	<0.0050	<0.0050
MW-OW1	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW1	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-OW1	10/1/2003	--	NA	NA	NA	NA	0.015	<0.0050	**0.025**	<0.0050
MW-OW1	10/30/2003	--	<0.001	<0.002	0.001	0.002	NA	NA	NA	NA
MW-OW1	2/17/2004	--	<0.001	<0.002	0.002	0.0045 J	0.009	<0.0050	**0.034**	<0.0050
MW-OW1	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-OW1	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-OW1	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-OW1	11/19/2008	8.2	<0.001	0.00038 J	0.0018	0.0033	<0.010	NA	<0.010	NA
MW-OW1	12/11/2009	32.1	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-OW1	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	NA	<0.010	NA	<0.0050
MW-OW1	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	0.0279	<0.010	<0.0050	<0.0050
MW-OW1	3/22/2018	13.9	<0.0050	<0.0050	<0.0050	<0.015	0.0279	<0.010	<0.0050	<0.0050
MW-OW2	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	12/28/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW2	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-OW2	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-OW2	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-OW2	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-OW2	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-OW2	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-OW2	11/19/2008	9.0	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-OW2	12/10/2009	68.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-OW2	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	NA	<0.010	NA	<0.0050
MW-OW2	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	0.0074	<0.0050
MW-OW2	3/22/2018	3.2	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-OW3	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-OW3	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-OW3	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-OW3	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	**0.063**	<0.0050	**0.056**	<0.0050
MW-OW3	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	0.027	NA	<0.0050	NA
MW-OW3	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-OW3	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name										
Unit of Measure			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-OW3	11/19/2008	11.1	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA
MW-OW3	12/10/2009	37.5	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-OW3	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	NA	<0.010	NA	<0.0050
MW-OW3	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	**0.0646**	<0.010	**0.0245**	<0.0050
MW-OW3	3/22/2018	14.3	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P1	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	8/12/2003	--	**0.006**	0.015	0.034	0.048	NA	NA	NA	NA
MW-P1	10/30/2003	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P1	11/6/2003	--	0.002	0.003	0.012	0.019	NA	NA	NA	NA
MW-P1	2/18/2004	--	0.004	0.005	0.019	0.026	0.006	<0.0050	**0.028**	<0.0050
MW-P1	9/10/2004	--	0.005	0.006	0.019	0.022	<0.0050	NA	<0.0050	NA
MW-P1	8/1/2006	--	**0.009**	0.005	0.025	0.020	NA	NA	NA	NA
MW-P1	7/24/2007	--	Well abandoned August 2006 in preparation for Creek Liner Installation in August 2007							
MW-P2	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P2	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P2	10/1/2003	--	NA	NA	NA	NA	0.011	<0.0050	<0.0050	<0.0050
MW-P2	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P2	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	0.005	<0.0050	0.013	<0.0050
MW-P2	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	<0.0050	NA
MW-P2	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P2	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P2	11/20/2008	--	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-P2	12/10/2009	573.0	<0.0050	<0.0050	<0.0050	<0.015	**0.0811**	NA	**0.035**	NA
MW-P2	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-P2	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	0.048	<0.010	**0.021**	<0.0050
MW-P2	3/26/2018		<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P3	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P3	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P3	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P3	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P3	8/11/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P3	10/1/2003	--	NA	NA	NA	NA	<0.0050	<0.0050	**0.021**	<0.0050
MW-P3	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P3	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.013	<0.0050
MW-P3	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-P3	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P3	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P3	11/19/2008	--	<0.001	<0.001	<0.001	<0.003	<0.010	NA	<0.010	NA

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Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
Chemical Name	Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential		--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
1996 VRP Tier II Non-Residential		--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
MW-P3	12/10/2009	513.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	**0.0255**	NA
MW-P3	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P3	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation							
MW-P4	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	8/4/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P4	8/11/2003	--	<0.001	0.001	0.003	0.003	NA	NA	NA	NA
MW-P4	10/1/2003	--	NA	NA	NA	NA	<0.0050	<0.0050	0.009	<0.0050
MW-P4	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P4	2/18/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	0.006	<0.0050
MW-P4	9/9/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	NA	< 0.01	NA
MW-P4	8/1/2006	--	<0.001	<0.001	0.00055 J	<0.003	NA	NA	NA	NA
MW-P4	7/24/2007	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P4	11/19/2008	--	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-P4	12/9/2009	393.0	<0.0050	<0.0050	<0.0050	<0.015	0.014	NA	**0.0514**	NA
MW-P4	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P4	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	0.0172	<0.010	**0.0384**	<0.0050
MW-P4	3/22/2018	--	<0.0050	<0.0050	<0.0050	<0.015	NA	NA	NA	NA
MW-P4	4/18/2018	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	**0.016**	<0.0050
MW-P5	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	8/4/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P5	10/1/2003	--	NA	NA	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
MW-P5	10/30/2003	--	<0.001	<0.002	<0.002	<0.006	NA	NA	NA	NA
MW-P5	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-P5	11/19/2008	--	<0.001	<0.001	<0.001	<0.003	<0.020	NA	<0.010	NA
MW-P5	12/9/2009	182.0	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.010	NA
MW-P5	11/10/2011	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P5	7/16/2015	--	<0.0050	<0.0050	<0.0050	<0.015	<0.010	<0.010	<0.0050	<0.0050
MW-P5	3/22/2018	2.000	<0.0050	<0.0050	<0.0050	<0.015	<0.010	NA	<0.0050	NA
MW-P6	5/18/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	8/14/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	11/13/2000	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	2/1/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	6/21/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	12/11/2001	--	NA	NA	NA	NA	NA	NA	NA	NA
MW-P6	8/11/2003	--	0.001	<0.002	0.076	<0.006	NA	NA	NA	NA
MW-P6	10/30/2003	--	0.002	<0.002	0.001	0.002	NA	NA	NA	NA
MW-P6	2/17/2004	--	<0.001	<0.002	<0.002	<0.006	<0.0050	<0.0050	<0.0050	<0.0050
MW-P6	9/10/2004	--	<.001	<.002	<.002	<.006	<0.0050	NA	<0.0050	NA
MW-P6	8/1/2006	--	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA
MW-P6	7/24/2007	--	Well abandoned August 2006 in preparation for Creek Liner Installation in August 2007							
RW-1	7/15/2015	14.2	**0.0214**	0.0899	0.0685	0.1890	<0.010	<0.010	<0.0050	<0.0050

Table 4. Groundwater BTEX & Metals Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Arsenic, Total	Arsenic, Dissolved	Lead, Total	Lead, Dissolved
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.005	0.70	1.00	10.00	0.050	0.050	0.015 **	0.015 **
		1996 VRP Tier II Non-Residential	--	0.099	10.20	20.40	204.00	0.050	0.050	0.015 **	0.015 **
RW-4	4/15/2010		75.1	**0.407**	0.559	0.200	0.574	<0.010	<0.010	<0.010	<0.010
RW-5	4/15/2010		364.0	**0.236**	**0.465**	0.185	0.565	<0.010	<0.010	<0.010	<0.010
RW-6	4/15/2010		218.0	**0.194**	**0.324**	0.124	0.346	<0.010	<0.010	<0.010	<0.010

0.68	BOLD - Concentration exceeds 1996 IDEM VRP Tier II Default Residential Closure Levels.
770	BOLD/SHADE - Concentration exceeds 1996 IDEM VRP Tier II Default Non-residential (Industrial) Closure Levels
<	Analyte not detected above the laboratory's Run Detection Limit, displayed as ND (Non-detect) in laboratory analytical data packages.
<0.050	*Italics* - Analyte not detected above the labortory's Run Detection Limit, however Detection Limit is above VRP Closure Levels
NA	Not Analyzed
**	Lead closure levels are from the January 26, 1996 IDEM Non-rule Policy (ID# W-0048), *Guidance for Lead cleanup levels for Voluntary Remediation Program* Tier II sites.

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
Location ID / Sample Date																													
MW-1S 5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.1**	**0.18**	<0.010	*<0.050*	0.34	<0.010	0.07	**0.051**	**0.022**	**0.022**	0.0082	**0.025**	**0.049**	**<0.010**	**0.27**	0.25	**0.0088**	<0.010	0.23	**0.55**	0.22
MW-1S 8/4/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.07**	**0.21**	*<0.010*	*<0.050*	0.5	<0.010	0.084	**0.074**	**0.034**	**0.03**	0.012	**0.031**	**0.077**	*<0.010*	**0.3**	0.26	**0.013**	<0.010	0.0068	**1**	0.29
MW-1S 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.013	**0.068**	*<0.010*	*<0.050*	0.11	<0.010	0.019	**0.021**	**0.0086**	**0.0096**	<0.010	**0.0076**	**0.017**	*<0.010*	0.12	0.084	*<0.010*	<0.010	<0.010	**0.2**	0.092
MW-1S 2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.035	**0.089**	*<0.010*	*<0.050*	0.17	<0.010	0.02	**0.019**	**0.0099**	**0.012**	<0.010	**0.0082**	**0.021**	*<0.010*	0.11	0.11	*<0.010*	<0.010	0.078	**0.19**	0.079
MW-1S 6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.11**	**0.3**	*<0.010*	*<0.050*	0.54	<0.010	0.058	**0.081**	**0.034**	**0.035**	0.01	**0.031**	**0.065**	*<0.010*	**0.45**	0.31	**0.012**	<0.010	0.27	**0.91**	0.34
MW-1S 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	**0.025**	*<0.010*	*<0.050*	0.055	<0.010	0.0049	**0.0053**	*<0.010*	*<0.010*	<0.010	*<0.010*	**0.0067**	*<0.010*	0.036	0.026	*<0.010*	<0.010	0.095	**0.052**	0.026
MW-1S 8/11/2003	--	<0.022	<0.022	<0.022	<0.022	<0.022	*<0.022*	<0.022	**0.104**	**0.676**	*<0.022*	*<0.110*	1.07	*<0.11*	0.334	**0.403**	**0.209**	**0.299**	0.0795	**0.103**	**0.34**	**0.0203**	**2.35**	0.947	**0.0991**	<0.110	0.0932	**3.49**	**1.31**
MW-1S 10/29/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0163	**0.123**	<0.005	*<0.020*	0.213	<0.020	0.0635	**0.0726**	**0.0401**	**0.0446**	0.0192	**0.0287**	**0.0673**	**0.0039**	**0.384**	0.185	**0.0227**	<0.020	0.0358	**0.614**	0.266
MW-1S 2/17/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0071	0.001	<0.0051	**0.0086**	0.0265	0.0026 J	0.0029 J	**0.0035**	**0.0067**	**0.0073**	0.0067	**0.0039**	**0.0102**	**0.00088**	0.0091	0.0099	**0.0069**	0.0014 J	0.104	0.0092	0.0059
MW-1S 9/9/2004	--	<0.0048	<0.0048	<0.0048	0.0136	<0.0048	<0.0048	<0.0048	**0.0596**	**0.0933**	<0.0048	*< 0.0095*	0.165	0.0083 J	0.0226	**0.0218**	**0.0273**	**0.0274**	0.0181	**0.0155**	**0.0364**	**0.0038**	0.0853	0.0954	**0.0211**	< 0.0095	0.0031 J	**0.143**	0.0535
MW-1S 8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0079	**0.0799**	<0.005	*<0.008*	0.203	<0.008	0.0041 J	*<0.0010*	*<0.0010*	*<0.0010*	<0.0010	*<0.0010*	*<0.0010*	*<0.0010*	0.0167	0.089	*<0.0010*	0.0107	0.0184	**0.0572**	0.008
MW-1S 11/19/2008	7.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	0.00010 J	**0.00027**	**0.00032**	0.00025	0.000096 J	**0.00056**	<0.00019	<0.00097	<0.00097	0.00028	<0.00097	<0.00097	<0.00097	<0.00097
MW-1S 12/10/2009	97.2	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	**0.00021**	**0.0008**	**0.0011**	0.00097	**0.00028**	**0.00070**	<0.00019	<0.00097	<0.00097	**0.00098**	<0.00097	<0.00097	<0.00097	<0.00097
MW-1S 12/9/2011	--	Well damaged beyond repair during City Utility Upgrade and was abandoned 12/9/2011																											
MW-1D 5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.15**	**0.19**	*<0.010*	**0.0086**	0.52	<0.010	0.018	**0.0053**	*<0.010*	*<0.010*	<0.010	*<0.010*	**0.0051**	*<0.010*	0.058	0.21	*<0.010*	**0.14**	**3.4**	**0.18**	0.045
MW-1D 8/4/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.15**	**0.17**	*<0.010*	**0.015**	0.35	<0.010	0.012	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.038	0.17	*<0.010*	**0.16**	**3.2**	**0.16**	0.025
MW-1D 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.18**	**0.19**	*<0.010*	*<0.050*	0.35	<0.010	0.015	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.037	0.18	*<0.010*	**0.17**	**2.6**	**0.16**	0.024
MW-1D 2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.17**	**0.19**	*<0.010*	*<0.050*	0.49	<0.010	0.014	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.035	0.2	*<0.010*	**0.2**	**3**	**0.16**	0.022
MW-1D 6/21/2001	--	NA	NA	<0.050	NA	<0.050	*<0.050*	<0.050	**0.15**	**0.19**	*<0.050*	*<0.25*	0.49	<0.050	<0.050	*<0.050*	*<0.050*	*<0.050*	<0.050	*<0.050*	*<0.050*	*<0.050*	<0.050	0.19	*<0.050*	**0.1**	**2.4**	**0.14**	<0.050
MW-1D 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.14**	**0.18**	*<0.010*	*<0.050*	0.34	<0.010	0.0071	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.029	0.15	*<0.010*	**0.044**	**2**	**0.13**	0.016
MW-1D 8/11/2003	--	<0.020	<0.020	<0.020	<.002	<0.020	*<0.020*	<0.020	**0.152**	**0.225**	*<0.020*	**0.0094**	0.485	<0.010	0.0133	**0.0031**	**0.0014**	**0.0021**	<0.002	*<0.002*	**0.0027**	*<0.002*	0.05	0.205	*<0.002*	**0.151**	**3.02**	**0.179**	0.0246
MW-1D 10/29/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.168**	**0.207**	<0.005	*<0.02*	0.474	<0.020	0.189	**0.0038**	*<0.004*	*<0.004*	<0.004	*<0.004*	**0.003**	*<0.004*	0.0602	0.224	*<0.004*	**0.162**	**2.68**	**0.189**	0.0351
MW-1D 2/17/2004	--	<0.021	<0.021	<0.021	<0.021	<0.021	*<0.021*	<0.021	**0.14**	**0.202**	*<0.021*	*<0.021*	0.471	<0.021	0.015 J	**0.0033 J**	*<0.0042*	*<0.0042*	<0.0042	*<0.0042*	**0.0026 J**	*<0.0042*	0.0516	0.223	*<0.0042*	**0.155**	**2.78**	**0.201**	0.0289
MW-1D 9/9/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0204	**0.0371**	<0.0051	*<0.0041*	0.0669	<0.0041	.0028 J	*<0.00082*	*<0.00082*	*<0.00082*	<0.00082	*<0.00082*	*<0.00082*	*<0.00082*	0.0059	0.0336	*<0.00082*	0.0116	0.229	**0.0264**	0.0031 J
MW-1D 8/1/2006	--	<0.053	<0.053	<0.053	<0.053	<0.053	<0.0053	<0.053	<0.0053	0.0012 J	<0.0053	0.00032 J	0.0086	0.0016	0.0018	**0.0012**	**0.0031**	**0.003**	0.0032	**0.0015**	**0.0035**	**0.00054**	0.0029	0.0013	**0.0036**	<0.0010	0.00047 J	0.0038	0.0018
MW-1D 7/24/2007	--	<0.05	<0.05	<0.05	<0.05	<0.05	*<0.05*	<0.05	**0.12**	**0.172**	*<0.05*	*< 0.038*	0.367	< 0.038	< 0.038	*<0.0077*	*<0.0077*	*<0.0077*	<0.0077	*<0.0077*	*<0.0077*	*<0.0077*	0.038	0.176	*<0.0077*	**0.103**	1.09	**0.122**	0.02 J
MW-1D 11/19/2008	2.6	<0.024	<0.024	<0.024	<0.024	<0.024	*<0.024*	<0.024	**0.167**	**0.167**	<0.024	*<0.019*	0.314	<0.019	<0.019	*<0.0039*	*<0.0039*	*<0.0039*	<0.0039	*<0.0039*	*<0.0039*	*<0.0039*	0.0188 J	0.138	*<0.0039*	**0.0672**	**1.17**	**0.139**	0.0093 J
MW-1D 12/9/2009	0.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.147**	**0.174**	*<0.050*	*<0.020*	0.346	<0.020	<0.020	*<0.0040*	*<0.0040*	*<0.0040*	<0.0040	*<0.0040*	*<0.0040*	*<0.0040*	<0.020	0.148	*<0.0040*	**0.0673**	**1.24**	**0.112**	<0.020
MW-1D 12/14/2010	20.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.107**	**0.142**	<0.0048	*<0.019*	0.317	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	0.0251	0.154	*<0.0038*	**0.0622**	0.699	**0.127**	<0.019
MW-1D 12/14/2011	13.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0381**	**0.136**	<0.0048	*<0.019*	0.312	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	0.0268	0.142	*<0.0038*	**0.044**	0.76	**0.0809**	<0.019
MW-1D 7/16/2015	8.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0711**	**0.0965**	<0.0050	*<0.010*	0.216	<0.010	<0.010	*<0.0020*	*<0.0020*	*<0.0020*	<0.0020	*<0.0020*	*<0.0020*	*<0.0020*	0.0234	0.116	*<0.0020*	<0.010	0.0803	**0.0574**	0.0146
MW-1D 3/15/2018	218	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	**0.129**	**0.212**	<0.024	*<0.019*	0.434	<0.019	0.0304	**0.0115**	**0.0048**	**0.0051**	<0.0038	**0.0042**	**0.0091**	**<0.0038**	0.0808	0.236	***<0.0038***	<0.019	0.166	**0.175**	0.0661
MW-2S 5/18/2000	--	NA	NA	<0.018	NA	<0.018	*<0.018*	<0.018	<0.018	*<0.018*	*<0.018*	*< 0.091*	<0.018	<0.018	<0.018	*<0.018*	*<0.018*	*<0.018*	<0.018	*<0.018*	*<0.018*	*<0.018*	<0.018	<0.018	*<0.018*	<0.018	<0.018	<0.018	<0.018
MW-2S 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2S 2/26/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2S 6/21/2001	--	NA	NA	<0.014	NA	<0.014	*<0.014*	<0.014	<0.014	<0.014	*<0.014*	*< 0.072*	<0.014	<0.014	<0.014	*<0.014*	*<0.014*	*<0.014*	<0.014	*<0.014*	*<0.014*	*<0.014*	<0.014	<0.014	*<0.014*	<0.014	<0.014	<0.014	<0.014
MW-2S 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2S 10/30/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2S 2/17/2004	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2S 11/20/2008	--	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2S 12/9/2009	214.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	**0.00028**	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-2S 6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-2S 11/29/2011	86.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0057**	<0.00097	<0.00097	<0.00097	**0.00081**	**0.00072**	**0.0011**	0.00038	**0.00039**	**0.00083**	<0.00019	0.0011	<0.00097	**0.00051**	<0.00097	<0.00097	<0.00097	0.001
MW-2S 12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-2D 5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2D 8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	0.012	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.01	<0.010	*<0.010*	<0.010	<0.010	<0.010	0.012
MW-2D 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2D 2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2D 6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2D 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-2D 8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0017	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2D 10/30/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0093	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	*<0.00020*	*<0.00020*	<0.00020	0.00085	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	0.00051
MW-2D 2/17/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2D 9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0025	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-2D 8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.002	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-2D 7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0022	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-2D 11/19/2008	28.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0035	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-2D 12/10/2009	9.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0085	<.00095	<.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-2D 6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0015	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-2D 11/29/2011	2.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.004	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0073	<0.00096	<0.00096
MW-2D 12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
		1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-3S	5/18/2000		--	NA	NA	0.017	NA	0.0065	<0.010	<0.010	**0.27**	**0.56**	*<0.010*	**0.0078**	0.79	0.023	0.12	**0.16**	**0.092**	**0.092**	0.036	**0.092**	**0.14**	**0.0054**	**0.59**	0.57	**0.039**	**0.96**	**12.00**	**1.00**	*< 1.0*
MW-3S	8/11/2003		--	*<5.0*	*<5.0*	<5.0	<5.0	<5.0	*<5.0*	<5.0	**31**	**288**	*<5.0*	*<25.0*	**288**	*<25.0*	**83**	**63**	**35.60**	**48.40**	13	**16.90**	**51.50**	**4.37**	**323**	**282**	**17**	**346**	**1,160**	**723**	**174**
MW-3S	10/30/2003		--	<0.053	0.138	0.0664	0.0405	<0.053	*<0.053*	<0.053	**0.31**	**0.544**	*<0.053*	*<0.110*	0.768	*<0.110*	0.117	**0.0674**	**0.036**	**0.0374**	0.0128	**0.0312**	**0.0586**	*<0.021*	**0.352**	0.567	**0.0157**	**1.23**	**14.90**	**0.934**	0.222
MW-3S	2/18/2004		--	<0.053	0.0443 J	<0.053	<0.053	<0.053	*<0.053*	<0.053	**0.184**	**0.332**	*<0.053*	*<0.043*	0.53	<0.043	0.0421 J	**0.0263**	**0.0194**	**0.0208**	0.0084 J	**0.0178**	**0.0258**	*<0.0085*	0.149	0.331	**0.0093**	**0.369**	**9.27**	**0.438**	0.092
MW-3S	9/10/2004		--	<.051	0.269	0.138	0.0972	0.0212	*<0.051*	<0.051	**0.316**	**0.385**	*<0.051*	*<0.041*	0.489	<0.041	0.0288	**0.0079**	**0.0042**	**0.0046**	<0.0084	*<0.0082*	**0.0061**	*<0.0082*	0.057	0.294	**0.0059**	**0.521**	**7.44**	**0.304**	0.0319
MW-3S	8/1/2006		--	<0.1	0.158	0.0715 J	0.0638 J	<0.1	*<0.1*	<0.1	**0.231**	**0.413**	*<0.1*	*<0.2*	0.523	*<0.2*	<0.2	**0.0288 J**	*<0.04*	**0.0154 J**	<0.04	*<0.04*	**0.0232 J**	*<0.04*	0.151 J	0.352	*<0.04*	**0.383**	**7.1**	**0.513**	0.0911 J
MW-3S	7/24/2007		--	Well abandoned in August 2006 for City walk path construction in October 2006																												
MW-3D	5/18/2000		--	NA	NA	1.2	NA	1.4	<0.010	<0.010	**0.34**	**0.21**	*<0.010*	*<5.0*	0.32	0.015	0.018	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.011	0.18	*<0.010*	**0.66**	**11.00**	**0.13**	0.0075
MW-3D	8/14/2000		--	NA	NA	**1.6**	NA	2.4	*<0.500*	*<0.500*	**0.52**	**0.47**	*<0.500*	**0.59**	0.67	*<0.500*	<0.500	*<0.500*	*<0.500*	*<0.500*	<0.500	*<0.500*	*<0.500*	*<0.500*	*<0.500*	<0.500	*<0.500*	**1.1**	**13.00**	**0.46**	<0.500
MW-3D	11/13/2000		--	NA	NA	1	NA	1.3	*<0.500*	*<0.500*	**0.31**	**0.31**	*<0.500*	**0.45**	0.43	*<0.500*	<0.500	*<0.500*	*<0.500*	*<0.500*	<0.500	*<0.500*	*<0.500*	*<0.500*	*<0.500*	<0.500	*<0.500*	**0.71**	**9.50**	**0.36**	<0.500
MW-3D	2/1/2001		--	NA	NA	0.56	NA	0.6	*<0.100*	<0.100	**0.28**	**0.26**	*<0.100*	**0.31**	0.35	*<0.100*	<0.100	*<0.100*	*<0.100*	*<0.100*	<0.100	*<0.100*	*<0.100*	*<0.100*	<0.100	0.2	*<0.100*	**0.79**	**9.10**	**0.18**	<0.100
MW-3D	6/21/2001		--	NA	NA	0.88	NA	0.98	0.0052	<0.010	*< 1.0*	*< 1.0*	*<0.010*	*<5.0*	< 1.0	0.02	0.036	**0.011**	<0.010	<0.010	<0.010	*<0.010*	*0.0088*	*<0.010*	0.071	< 1.0	*<0.010*	**0.67**	**11.00**	*< 1.0*	0.056
MW-3D	12/11/2001		--	NA	NA	1	NA	1.2	*<0.050*	<0.050	**0.36**	**0.26**	*<0.050*	**0.45**	0.41	<0.050	0.018	*<0.050*	*<0.050*	*<0.050*	<0.050	*<0.050*	*<0.050*	*<0.050*	0.0026	0.17	*<0.050*	**0.61**	**9.40**	**0.17**	0.018
MW-3D	8/11/2003		--	*<0.240*	**1.8**	1.18	1.12	0.689	*<0.240*	*<0.240*	**1.96**	**7.06**	<0.240	**1.45**	**8.59**	*< 1.200*	2.51	**2.07**	**1.1**	**1.550**	0.403	**0.523**	**1.54**	**0.121**	**10.70**	**8.57**	**0.506**	**9.63**	**40.50**	**22**	**5.97**
MW-3D	10/30/2003		--	<0.052	**0.827**	0.562	0.42	0.344	*<0.052*	<0.052	**0.58**	**1.73**	*<0.052*	**0.698**	**2.05**	**0.139**	0.467	**0.394**	**0.203**	**0.229**	0.0686	**0.15**	**0.308**	**0.0198**	**1.86**	**1.8**	**0.0854**	**2.56**	**17.30**	**3.96**	**1.31**
MW-3D	2/18/2004		--	*<0.110*	**0.811**	0.446	0.315	0.21	*<0.110*	*<0.110*	**1.03**	**4.62**	*<0.110*	**0.416**	**6.31**	**0.44**	1.7	**1.49**	**0.752**	**0.748**	0.268	**0.66**	**1.2**	**0.0704**	**7.18**	**5.71**	**0.327**	**7.02**	**34.20**	**16**	**4.73**
MW-3D	9/10//2004		--	*<0.019*	**1.17**	0.68	0.489	0.354	*<0.19*	*<0.19*	**1.13**	**4.03**	*<0.19*	**0.61**	**4.19**	**0.348**	1.33	**1.17**	**0.618**	**0.607**	0.22	**0.468**	**0.829**	**0.0576**	**4.79**	**4.21**	**0.272**	**5.93**	**25.60**	**11**	**3.16**
MW-3D	8/2/2006		--	< 0.08	**1.053**	0.862	0.927	0.437	*< 0.08*	< 0.08	**0.296**	**0.248**	*< 0.08*	**0.776**	0.35	< 0.08	< 0.08	**0.0149 J**	**0.008 J**	**0.0082 J**	<0.016	*<0.016*	**0.0123 J**	**<0.016**	0.082	0.206	*<0.016*	**0.546**	**6.11**	**0.252**	0.0518 J
MW-3D	7/24/2007		--	Well abandoned in August 2006 for City walk path construction in October 2006																												
MW-4S	8/12/2003		--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	**0.00053**	**0.001**	**0.0019**	0.0009	**0.00059**	**0.00069**	0.00019	0.00087	<0.0010	**0.001**	<0.0010	<0.0010	<0.0010	0.00081
MW-4S	10/31/2003		--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0010*	<0.0010	<0.0010	<0.0010	**0.00021**	**0.00045**	**0.00067**	0.00043	**0.00037**	**0.00031**	<0.00020	0.0003	<0.0010	**0.00047**	<0.0010	0.00059	<0.0010	0.00034
MW-4S	2/19/2004		--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	0.00036 J	**0.00011 J**	0.00018 J	**0.00027**	0.00016 J	0.0002	0.0002	<0.00020	<0.0010	<0.0010	0.00018 J	<0.0010	<0.0010	<0.0010	<0.0010
MW-4S	8/2/2006		--	Well obstructed, unable to collect sample																												
MW-4S	12/9/2011		--	Well Abandoned December 2011 in Preparation for Site Excavation																												
MW-4D	8/12/2003		--	<0.050	0.472	0.0207	<0.050	<0.050	*<0.050*	<0.050	**0.15**	**0.091**	*<0.050*	*<0.020*	0.191	<0.020	0.0055	*<0.004*	*<0.004*	*<0.004*	<0.004	*<0.004*	*<0.004*	*<0.004*	0.0083	0.0939	*<0.004*	**0.0534**	**2.86**	**0.0661**	<0.020
MW-4D	10/31/2003		--	<0.020	0.483	0.0866	0.0835	0.0189	*<0.020*	<0.020	**0.146**	**0.0951**	*<0.020*	*<0.020*	0.189	<0.020	<0.020	*<0.004*	*<0.004*	*<0.004*	<0.004	*<0.004*	*<0.004*	*<0.004*	0.0058	0.0977	*<0.004*	**0.0745**	**2.39**	**0.0657**	<0.020
MW-4D	2/19/2004		--	<0.021	0.36	0.0544	0.018 J	0.009 J	*<0.021*	<0.021	**0.174**	**0.0634**	*<0.021*	*<0.0041*	0.148	0.0047	0.0094	*<0.00082*	*<0.00082*	*<0.00082*	<0.00082	*<0.00082*	*<0.00082*	*<0.00082*	0.0092	0.0856	*<0.00082*	0.0107	0.262	**0.042**	0.0055
MW-4D	9/9/2004		--	**0.712**	<0.053	0.103	0.0653	<0.021	*<0.021*	<0.021	**0.21**	**0.112**	*<0.021*	*<0.011*	0.186	0.0114	0.0077 J	*<0.0021*	*<0.0021*	*<0.0021*	<0.0021	*<0.0021*	*<0.0021*	<0.0021	0.0058 J	0.101	<0.0021	<0.011	**1.7**	**0.051**	0.0031 J
MW-4D	8/2/2006		--	<0.020	0.483	0.148	<0.020	<0.020	*<0.020*	<0.020	**0.145**	**0.0906**	*<0.020*	*<0.039*	<0.184	<0.039	<0.039	*< 0.0078*	*< 0.0078*	*< 0.0078*	< 0.0078	*< 0.0078*	*< 0.0078*	*< 0.0078*	<0.039	0.0899	*< 0.0078*	**0.0525**	**1.52**	**0.0571**	<0.039
MW-4D	7/24/2007		--	<0.049	0.633	0.130	0.0324 J	<0.049	*<0.049*	<0.049	**0.195**	**0.102**	*<0.049*	*<0.049*	0.175	<0.049	<0.049	*< 0.0097*	*< 0.0097*	*< 0.0097*	< 0.0097	*< 0.0097*	*< 0.0097*	*< 0.0097*	<0.049	0.103	*< 0.0097*	**0.0414 J**	**1.55**	**0.758**	<0.049
MW-4D	11/17/2008	18.5	--	<0.0048	0.208	0.0179	0.0232	0.0039 J	<0.0048	<0.0048	**0.0631**	**0.0275**	<0.0048	*<0.00095*	0.0408	0.0029	0.0029	0.000054 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0055 B	0.0242	<0.00019	0.0089	0.017	**0.0258**	0.0032
MW-4D	12/16/2009		--	<0.0048	0.116	0.0068	<0.0048	<0.0048	<0.0048	<0.0048	**0.0527**	**0.035**	<0.0048	*<0.0095*	0.0661	<0.0095	<0.0095	*<0.00109*	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	<0.0095	0.0346	<0.00109	<0.0095	0.268	**0.0233**	<0.0095
MW-4D	12/9/2011		--	Well Abandoned December 2011 in Preparation for Site Excavation																												
MW-5S	8/12/2003		--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	0.00014	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-5S	10/31/2003		--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-5S	2/19/2004		--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-5S	9/9/2004		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00020	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00036 J	<0.00097	0.00013 J	<0.00097	0.00027 J	0.00065 J	0.00025 J
MW-5S	8/2/2006		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-5S	7/24/2007		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-5S	11/17/2008		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-5S	12/16/2009		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-5S	6/22/2011		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0012	<0.00098	<0.00908
MW-5S	7/12/2012	56.0	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-5S	7/15/2015	>1000	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-5S	3/13/2018	163.0	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	0.0014	<0.00099	<0.00099
MW-5D	8/12/2003		--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-5D	10/31/2003		--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.00093	<0.0010	<0.0010
MW-5D	2/19/2004		--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-5D	9/9/2004		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00042 J	0.00024 J	<0.00019	<0.00096	0.00028 J	0.00075 J	0.00028 J
MW-5D	8/2/2006		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-5D	7/24/2007		--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.00033 J	<0.0010	<0.0010
MW-5D	11/17/2008		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-5D	12/16/2009	90.5	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.004	<0.00095	<0.00095
MW-5D	12/16/2010	390.0	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.001	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	0.0016	0.0105	<0.0010	<0.0010
MW-5D	12/16/2011	59.2	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0016	<0.00095	<0.00095
MW-5D	7/16/2015	241.0	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0068	<0.0010	<0.0010
MW-5D	3/12/2018	87.0	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0019	<0.0019	<0.0019	<0.0019	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	<0.0019	<0.0019	<0.00038	<0.0019	0.0661	<0.0019	<0.0019
MW-6S	2/19/2004		--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	**0.00017 J**	**0.00024**	**0.00033**	0.00014 J	**0.00023**	**0.00022**	<0.00020	<0.0010	<0.0010	0.00019 J	<0.0010	<0.0010	<0.0010	<0.0010
MW-6S	11/17/2008		--	Insufficient water supply to collect sample																												
MW-6S	12/16/2009	62.1	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0083	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	**0.00022**	**0.00039**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-6S	6/22/2011		--	Insufficient water supply to collect sample																												
MW-6S	7/15/2015	521.0	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-6S	4/9/2018		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-6D	8/14/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-6D	10/31/2003	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-6D	2/19/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-6D	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00019**	<0.00019	0.000096 J	<0.00019	<0.00019	0.00014 J	<0.00019	0.00089 J	0.00054 J	0.00013 J	0.00025 J	0.00050 J	0.0017	0.00059 J
MW-6D	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.001	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-6D	7/24/2007	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-6D	11/17/2008	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-6D	12/16/2009	335.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	0.001	0.0062	<0.0010	<0.0010
MW-6D	6/24/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.0020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0037	<0.00098	<0.00098
MW-6D	7/12/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0017	<0.00095	<0.00095
MW-6D	7/15/2015	>1000	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	0.001	0.0064	<0.0010	<0.0010
MW-6D	3/14/2018	212	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0059	<0.0048	<0.0048	<0.00096	0.0045	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.001	0.0052	<0.00019	<0.00096	<0.00096	0.0043	<0.00096
MW-7S	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7S	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0011	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00033	0.00058	<0.00020	<0.0010	0.0065	<0.0010	<0.0010
MW-7S	10/30/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0003	<0.00020	<0.0010	0.0018	<0.0010	<0.0010
MW-7S	2/18/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-7S	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00011 J**	0.00010 J	0.00012 J	<0.00019	0.000095 J	0.00010 J	<0.00019	<0.00095	<0.00095	0.00016 J	<0.00095	<0.00095	<0.00095	<0.00095
MW-7S	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.001	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-7S	7/24/2007	--	Well abandoned in August 2006 for City walk path construction in October 2006																											
MW-7D	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7D	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7D	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.0069	<0.010	<0.010
MW-7D	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7D	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7D	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-7D	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0014	**0.00016**	0.00013	0.00019	<0.00020	<0.00020	**0.00022**	<0.00020	0.00066	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	0.0006	0.00039
MW-7D	10/30/2003	--	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-7D	2/18/2004	--	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-7D	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0014	<0.00095	<0.00095
MW-7D	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.001	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-7D	7/24/2007	--	Well abandoned in August 2006 for City walk path construction in October 2006																											
MW-8S	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.012	**0.067**	*<0.010*	*<0.050*	0.27	<0.010	0.014	**0.0066**	*<0.010*	*<0.010*	<0.010	*<0.010*	**0.0067**	*<0.010*	0.069	0.22	*<0.010*	<0.010	0.023	0.0095	0.053
MW-8S	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.017	**0.077**	*<0.010*	*<0.050*	0.23	<0.010	0.011	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.055	0.16	*<0.010*	<0.010	0.058	**0.023**	0.036
MW-8S	8/12/2003	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.0041	**0.046**	<0.0053	*<0.0010*	0.158	0.0028	0.0056	**0.0027**	**0.0032**	**0.0044**	0.0014	**0.0013**	**0.0033**	**0.0004**	0.0277	0.0885	**0.0017**	<0.0010	0.00033	0.00094	0.0111
MW-8S	10/31/2003	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0017	**0.022**	<0.0054	*<0.0010*	0.0586	0.0019	0.0034	**0.0021**	**0.003**	**0.0032**	0.0015	**0.0016**	**0.0031**	**0.00034**	0.0172	0.0424	**0.0018**	<0.0010	<0.0010	0.0009	0.0073
MW-8S	2/19/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0014 J	0.004 J	<0.0052	*<0.0021*	0.0168	0.0017 J	0.0028	**0.0029**	**0.0055**	**0.0053**	0.0031	**0.003**	**0.0054**	**0.00061**	0.0102	0.0171	**0.0036**	<0.0021	<0.0021	0.002 J	0.0055
MW-8S	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0068	**0.0745**	<0.0048	*< 0.0038*	0.155	0.0043	0.012	**0.0033**	**0.0043**	**0.0043**	0.0022	**0.0024**	**0.0043**	**0.00062 J**	0.0367	0.142	**0.0029**	< 0.0038	0.0012 J	0.0041	0.0192
MW-8S	8/1/2006	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	**0.0158**	<0.0053	*<0.0084*	0.163	<0.0084	0.0064 J	**0.0024**	**0.002**	**0.0017**	0.00085 J	**0.0015 J**	**0.0024**	**<0.00107**	0.04	0.132	**0.0012 J**	<0.0084	<0.0084	<0.0084	0.0227
MW-8S	7/25/2007	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0353**	<0.0048	<0.00096	0.124	0.002	0.0054	**0.0016**	**0.0025**	**0.0026**	0.0014	**0.0013**	**0.0025**	**0.00031**	0.0146	0.097	**0.0016**	<0.00096	0.00043 J	0.0051	0.0096
MW-8S	11/8/2008	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0125	<0.0048	<0.00096	0.0357	0.00059 J	0.0019	**0.00023**	**0.00041**	**0.00043**	0.00023	0.00011 J	**0.00036**	<0.00019	0.0068	0.00323	0.00027	<0.00096	<0.00096	0.0033	0.0032
MW-8S	12/15/2009	327.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.009	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	0.006	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-8S	12/14/2010	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0057	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0012	<0.00097	<0.00097
MW-8S	12/16/2011	292.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00033**	**0.00088**	**0.0008**	0.00067	**0.00047**	**0.00063**	<0.00019	0.0011	<0.00095	**0.00085**	<0.00095	<0.00095	<0.00095	<0.00095
MW-8S	7/15/2015	334.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00098	0.0046	<0.00098	<0.00098	**0.00079**	**0.0015**	**0.0019**	0.0012	**0.0006**	**0.0015**	0.00021	0.0019	0.0023	**0.0015**	<0.00098	0.0011	<0.00098	0.0012
MW-8S	4/9/2018	--	Insufficient water supply to collect sample																											
MW-8D	6/21/2001	--	NA	NA	<0.020	NA	<0.020	*<0.020*	<0.020	**0.13**	**0.093**	*<0.020*	*<0.100*	0.19	<0.020	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	0.043	0.11	*<0.020*	**0.054**	1.0	**0.12**	0.034
MW-8D	12/11/2001	--	NA	NA	0.022	NA	<0.010	<0.010	<0.010	**0.19**	**0.14**	*<0.010*	*<0.050*	0.27	0.0099	0.013	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.035	0.15	*<0.010*	0.03	**1.8**	**0.14**	0.021
MW-8D	8/12/2003	--	<0.020	0.234	0.0125	<0.020	<0.020	*<0.020*	<0.020	**0.159**	**0.13**	*<0.020*	*<0.020*	0.263	<0.020	0.0082	**0.0031**	**<0.0040**	**0.0029**	<0.0040	*<0.0040*	**0.0024**	*<0.0040*	0.0352	0.142	*<0.0040*	**0.104**	**2.25**	**0.106**	0.0175
MW-8D	10/31/2003	--	<0.022	0.212	0.0117	<0.022	<0.022	*<0.022*	<0.022	**0.196**	**0.178**	*<0.022*	*<0.056*	0.361	<0.056	<0.056	*<0.011*	*<0.011*	*<0.011*	<0.011	*<0.011*	*<0.011*	*<0.011*	0.029	0.205	*<0.011*	**0.141**	**2.38**	**0.167**	0.0152
MW-8D	2/19/2004	--	<0.021	0.32	0.125	0.0115 J	<0.021	*<0.021*	<0.021	**0.144**	**0.136**	*<0.021*	*<0.010*	0.268	0.0092 J	0.0123	**0.0014 J**	*<0.0021*	*<0.0021*	<0.0021	*<0.0021*	**0.0011 J**	*<0.0021*	0.0297	0.162	*<0.0021*	0.0211	0.972	**0.126**	0.017
MW-8D	9/9/2004	--	<0.0049	0.304	0.0127	0.0105	<0.0049	<0.0049	<0.0049	**0.132**	**0.152**	<0.0049	*< 0.0097*	0.25	0.0109	0.0126	**0.0039**	**0.002**	**0.0023**	<0.00109	**0.0014 J**	**0.0028**	*<0.00109*	0.043	0.157	**0.0019**	**0.055**	**1.38**	**0.116**	0.0255
MW-8D	8/1/2006	--	<0.026	0.214	<0.026	<0.026	<0.026	*<0.026*	<0.026	**0.166**	**0.158**	*<0.026*	*<0.084*	0.29	*<0.084*	<0.084	*<0.017*	*<0.017*	*<0.017*	<0.017	*<0.017*	*<0.017*	*<0.017*	0.0295 J	0.153	*<0.017*	**0.143**	**2.79**	**0.112**	<0.084
MW-8D	7/24/2007	--	<0.048	0.181	<0.048	<0.048	<0.048	*<0.048*	<0.048	**0.175**	**0.156**	*<0.048*	*<0.076*	0.291	*<0.076*	<0.076	**0.0047 J**	*<0.015*	*<0.015*	<0.015	*<0.015*	*<0.015*	*<0.015*	0.0443 J	0.17	*<0.015*	**0.153**	**2.33**	**0.133**	0.0265 J
MW-8D	11/18/2008	26.7	<0.024	0.179	0.0053 J	<0.024	<0.024	*<0.024*	<0.024	**0.158**	**0.103**	*<0.024*	*<0.049*	0.236	<0.049	<0.049	*<0.0097*	*<0.0097*	*<0.0097*	<0.0097	*<0.0097*	*<0.0097*	*<0.0097*	0.0181 J	0.116	*<0.0097*	**0.114**	**1.49**	**0.0692**	<0.049
MW-8D	12/15/2009	2061.0	<0.025	0.161	<0.025	<0.025	<0.025	*<0.025*	<0.025	**0.159**	**0.126**	*<0.025*	*<0.050*	0.161	<0.050	<0.050	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.050	0.117	*<0.010*	**0.107**	**1.4**	**0.0816**	<0.050
MW-8D	6/24/2011	--	<0.019	0.177	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.173**	**0.151**	*<0.019*	*<0.048*	0.271	<0.048	<0.048	*<0.0096*	*<0.0096*	*<0.0096*	<0.0096	*<0.0096*	*<0.0096*	*<0.0096*	<0.048	0.143	*<0.0096*	**0.179**	**3.19**	**0.105**	<0.048
MW-8D	7/10/2012	0.0	<0.0048	0.132	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.186**	**0.139**	<0.0048	*<0.038*	0.252	<0.038	<0.038	*<0.0076*	*<0.0076*	*<0.0076*	<0.0076	*<0.0076*	*<0.0076*	*<0.0076*	<0.038	0.14	*<0.0076*	**0.165**	**1.51**	**0.0968**	<0.038
MW-8D	7/15/2015	23.4	<0.020	0.063	<0.020	<0.020	<0.020	<0.020	<0.020	**0.176**	**0.108**	<0.020	*<0.039*	0.187	<0.039	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	0.0974	*<0.0078*	**0.13**	**1.78**	**0.0608**	<0.039
MW-8D	3/13/2018	176.0	<0.0049	0.0566	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.191**	**0.151**	<0.0049	*<0.049*	0.226	<0.049	<0.049	*<0.0097*	*<0.0097*	*<0.0097*	*<0.0097*	*<0.0097*	*<0.0097*	*<0.0097*	<0.049	0.122	*0.0097*	**0.201**	**1.85**	**0.098**	0.049

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-9	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-9	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-9	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-9	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-9	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	**0.0006**	**0.00081**	**0.0015**	0.00053	**0.0004**	**0.00069**	0.00013	0.00083	<0.0010	**0.00064**	<0.0010	<0.0010	<0.0010	0.00068
MW-9	10/29/2003	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	**0.00034**	**0.00043**	**0.00061**	0.0003	**0.0004**	**0.00043**	<0.00020	0.0005	<0.0010	0.00034	<0.0010	<0.0010	<0.0010	0.00048
MW-9	2/17/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	**0.00027**	**0.00031**	**0.0004**	0.00021	**0.00034**	**0.00034**	<0.00020	0.0004 J	<0.0010	0.00026	<0.0010	0.00065 J	<0.0010	0.00037 J
MW-9	7/31/2006	--	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	*<0.0010*	<0.0010	<0.0010	<0.0010	<0.0010	0.0001 J	0.00012 J	0.00015 J	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	0.00011 J	<0.0010	<0.0010	<0.0010
MW-9	7/24/2007	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0001 J	0.00012 J	0.00015 J	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00015 J	<0.0010	<0.0010	<0.0010
MW-9	11/19/2008	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	**0.0003**	**0.00045**	**0.00074**	0.00031	**0.00024**	**0.00025**	0.000074 J	0.00042 J	<0.00096	0.00038	<0.00096	<0.00096	<0.00096	0.00039 J
MW-9	12/9/2009	439.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	**0.00021**	**0.00029**	**0.00059**	<0.00019	<0.00019	**0.00026**	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-9	12/13/2010	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-9	12/14/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.00099	<0.00095	<0.00095
MW-9	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.00099	<0.00095	<0.00095
MW-9	4/9/2018	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-10	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	**<0.010**	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-10	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-10	6/21/2001	--	NA	NA	<0.0010	NA	<0.0010	<0.016	<0.0010	<0.0010	<0.0010	*<0.016*	*< 0.078*	<0.0010	<0.0010	<0.0010	*<0.0010*	*<0.0010*	*<0.0010*	<0.0010	*<0.0010*	*<0.0010*	*<0.0010*	<0.0010	<0.0010	*<0.0010*	<0.0010	<0.0010	<0.0010	<0.0010
MW-10	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-10	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	**0.0011**	**0.0015**	**0.0025**	0.00095	**0.00086**	**0.0013**	0.00022	0.0016	<0.0010	**0.0011**	<0.0010	<0.0010	<0.0010	0.0013
MW-10	10/29/2003	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-10	2/17/2004	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-10	9/9/2004	--	<0.0048	0.0061	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.01	0.0107	<0.0048	0.00032 J	0.0211	0.003	0.00096	**0.00037**	**0.00062**	**0.00062**	0.00037	**0.00036**	**0.00043**	0.00014 J	0.002	0.0102	**0.00042**	0.0049	0.0351	0.0038	0.0013
MW-10	7/31/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	0.000066 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-10	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	0.000064 J	<0.00020	0.00011 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	0.000068 J	<0.00098	<0.00098	<0.00098	<0.00098
MW-10	11/19/2008	12.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-10	12/9/2009	7.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-10	6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00908
MW-10	7/13/2012	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-10	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-10	3/22/2018	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-11S	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-11D	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-11D	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-11D	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0032	<0.0010	<0.0010	**0.0001**	0.00016	**0.00027**	0.00016	<0.00020	0.00016	<0.00020	0.00028	0.00095	0.00017	<0.0010	<0.0010	<0.0010	<0.0010
MW-11D	10/30/2003	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	0.00014	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-11D	2/17/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	**0.00014 J**	**0.00021**	**0.00026**	0.0002	**0.0002**	**0.00023**	<0.00020	0.00043 J	<0.0010	0.00021	<0.0010	<0.0010	<0.0010	0.00034 J
MW-11D	9/9/2004	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.00099	0.006	< 0.00099	< 0.00099	**0.00014 J**	**0.0002**	**0.00026**	0.00016 J	**0.00016 J**	0.00018 J	<0.00020	0.00031 J	0.0012	0.00026	< 0.00099	< 0.00099	< 0.00099	0.00028 J
MW-11D	7/31/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-11D	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0028	<0.00098	<0.00098	0.000064 J	<0.00020	0.00012 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	0.00026 J	0.0001 J	<0.00098	<0.00098	<0.00098	<0.00098
MW-11D	11/19/2008	2.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-11D	12/9/2009	167.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.0015	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0013	<0.0010	<0.0010	0.001	0.0013	<0.0010
MW-11D	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0175	<0.00096	0.002	**0.00023**	<0.00019	<0.00019	<0.00019	<0.00019	0.00019	<0.00019	0.0089	0.0116	<0.00019	<0.00096	0.0015	0.0091	0.0055
MW-11D	7/13/2012	250.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-11D	7/16/2015	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0037	<0.0010	<0.0010	*<0.00020*	<0.00020	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	0.001	<0.0010	<0.0010
MW-11D	3/16/2018	62.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0013	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-12S	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-12S	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.0095	<0.010	<0.010
MW-12S	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.022	<0.010	<0.010
MW-12S	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	0.00098
MW-12S	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0033	0.0076	<0.005	<0.005	<0.0010	0.0107	0.0014	0.00059	**0.00029**	**0.00045**	**0.00068**	0.00029	0.00018	**0.00035**	<0.00020	0.0011	0.00026	0.00034	<0.0010	0.00095	0.00066	0.00062
MW-12S	10/30/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0013	0.0028	<0.0051	<0.0010	0.0045	0.00082	0.00045	**0.00045**	**0.00087**	**0.001**	0.00052	**0.00054**	**0.00062**	0.00011	0.0011	<0.0010	**0.00064**	<0.0010	<0.0010	<0.0010	0.00082
MW-12S	2/17/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	0.00062 J	0.00091 J	**0.0015**	**0.0026**	**0.0029**	0.0016	**0.0019**	**0.0021**	**0.00037**	0.0028	<0.0010	**0.0018**	<0.0010	<0.0010	0.00071 J	0.0026
MW-12S	9/29/2004	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0033	0.0096	<0.0049	<0.0049	<0.00097	0.0148	0.002	<0.00097	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0005	0.0012	0.00014	<0.00097	0.00081	<0.00097	0.00029
MW-12S	8/1/2006	--	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	< 0.0063	*< 0.0063*	*<0.0010*	0.00079 J	<0.0010	<0.0010	**0.0002 J**	**0.00035**	**0.00039**	0.00023 J	**0.00024 J**	**0.00028**	<0.00020	0.00051 J	<0.0010	0.00029	<0.0010	<0.0010	<0.0010	0.00036 J
MW-12S	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0011 J	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	**0.00016 J**	**0.00024**	**0.0003**	0.00013 J	0.00015 J	**0.00022**	<0.00019	0.00038 J	<0.00097	0.00016 J	<0.00097	0.00079 J	<0.00097	0.00037 J
MW-12S	11/20/2008	5.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0012	<0.0010	<0.0010
MW-12S	12/11/2009	164.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-12S	12/14/2010	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-12S	12/14/2011	134.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-12S	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-12S	3/26/2018	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-12D	6/21/2001	--	NA	NA	< 1.0	NA	< 1.0	<0.010	<0.010	*< 1.0*	*< 1.0*	*<0.010*	***<5.0***	0.61	0.032	0.068	**0.055**	**0.022**	**0.02**	0.0071	**0.023**	**0.045**	*<0.010*	*< 1.0*	< 1.0	**0.0084**	**0.96**	**13.00**	**0.63**	*< 1.0*
MW-12D	8/11/2003	--	<0.051	**1.1**	0.46	0.455	0.203	*<0.051*	<0.051	**0.864**	**2.5**	*<0.051*	**0.463**	**2.35**	**0.289**	0.669	**0.658**	**0.375**	**0.509**	0.139	**0.178**	**0.486**	*< 0.082*	**3.26**	**2.46**	**0.176**	**3.37**	**21.60**	**6.2**	**1.78**
MW-12D	10/30/2003	--	<0.052	**4.18**	**3.12**	**4.49**	1.76	*<0.052*	<0.052	**0.642**	**0.84**	*<0.052*	**0.305**	1.01	**0.157**	0.218	**0.183**	**0.097**	**0.0999**	0.0324	**0.0813**	**0.146**	*<0.041*	**0.921**	0.919	**0.0388**	**1.65**	**16.40**	**1.93**	0.576
MW-12D	2/18/2004	--	<0.110	**0.813**	0.473	0.482	0.294	*<0.110*	*<0.110*	**0.57**	**0.844**	*<0.110*	**0.236**	1.11	**0.128**	0.235	**0.224**	**0.116**	**0.109**	0.0438	**0.104**	**0.172**	**0.0104 J**	**1.03**	0.938	**0.0513**	**2.09**	**15.90**	**2.04**	0.691
MW-12D	9/10/2004	--	***<0.97***	**1.01**	0.586	0.624	<0.97	***<0.97***	<0.97	**3.74**	**16**	*<0.97*	**0.426**	**13.4**	**1.89**	4.41	**4.84**	**2.71**	**2.66**	0.981	**1.91**	**3.39**	**0.315**	**18.9**	**14.7**	**1.27**	**17.9**	**64.90**	**30.40**	**12.70**
MW-12D	8/2/2006	--	<0.11	**3.331**	**2.01**	**3.14**	1.19	*<0.11*	*<0.11*	**0.429**	**0.347**	*<0.11*	**0.0672 J**	0.444	0.064 J	<0.11	**0.0254**	**0.0132 J**	**0.0121 J**	<0.022	**0.011 J**	**0.0182 J**	*<0.022*	0.132	0.265	**0.006 J**	**0.872**	**9.54**	**0.394**	0.0756 J
MW-12D	7/24/2007	--	<0.048	**0.990**	<0.048.0	0.452	0.248	*<0.048*	<0.048	**0.527**	**0.553**	*<0.048*	**0.274**	0.606	0.0536	0.092	**0.083**	**0.0446**	**0.0464**	0.0164	**0.0339**	**0.0618**	**0.0047**	**0.362**	0.466	**0.0217**	**1.35**	**13.2**	**0.849**	0.277
MW-12D	11/20/2008	13.4	<0.020	**1.170**	0.790	0.597	0.555	*<0.020*	<0.020	**0.208**	**0.236**	*<0.020*	**0.544**	0.321	<0.100	<0.100	**0.0146 J**	**0.0073 J**	**0.0096 J**	<0.020	*<0.020*	**0.010 J**	<0.020	0.0753 J	0.0213	<0.020	**0.648**	**8.7**	**0.251**	0.0462 J
MW-12D	12/17/2009	0.0	<0.096	**1.530**	0.723	0.601	0.335	<0.096	<0.096	**0.55**	**0.367**	*<0.096*	**0.471**	0.482	<0.019	<0.019	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.019	0.279	<0.038	**0.882**	**11.9**	**0.234**	<0.019
MW-12D	12/21/2010	24.3	<0.097	**0.979**	0.491	0.433	0.228	<0.097	<0.097	**0.464**	**0.617**	<0.097	*<0.97*	<0.97	*<0.97*	<0.97	*<0.19*	*<0.19*	*<0.19*	*<0.19*	*<0.19*	*<0.19*	*<0.19*	*<0.97*	<0.97	*<0.19*	**1.4**	**14.1**	**1.41**	*<0.97*
MW-12D	7/15/2015	0.0	<0.23	**1.900**	0.936	0.885	0.383	<0.23	<0.23	**0.457**	**0.323**	<0.23	0.227	0.358	*0.0497*	<0.045	**0.0221**	**0.0099**	**0.0148**	<0.0091	*<0.0091*	**0.0175**	*<0.0091*	0.113	0.236	*<0.0091*	**0.641**	**8.89**	**0.341**	0.0755
MW-13	11/13/2000	--	NA	NA	0.052	NA	<0.010	<0.010	<0.010	**0.24**	**0.24**	*<0.010*	**0.13**	0.3	0.014	0.081	**0.073**	**0.032**	**0.036**	<0.010	**0.028**	**0.058**	**0.0056**	0.21	0.25	**0.0099**	**0.6**	**6.4**	**0.34**	0.18
MW-13	2/1/2001	--	NA	NA	0.067	NA	<0.010	<0.010	<0.010	**0.28**	**0.32**	*<0.010*	*<0.050*	0.58	0.013	0.1	**0.07**	**0.034**	**0.033**	0.015	**0.034**	**0.065**	**0.0074**	**0.32**	0.33	**0.019**	**0.34**	**4.7**	**0.94**	0.21
MW-13	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.078**	**0.18**	*<0.010*	**0.013**	0.32	0.0071	0.043	**0.024**	**0.011**	**0.011**	<0.010	**0.0098**	**0.022**	*<0.010*	0.13	0.2	*<0.010*	**0.072**	0.1	**0.33**	0.1
MW-13	12/11/2001	--	NA	NA	0.17	NA	<0.050	*<0.050*	<0.050	**0.36**	**0.34**	*<0.050*	**0.12**	0.78	<0.050	0.035	*<0.050*	*<0.050*	*<0.050*	<0.050	*<0.050*	*<0.050*	*<0.050*	0.12	0.28	*<0.050*	**0.44**	**7.5**	**0.42**	0.076
MW-13	8/12/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0015**	0.0247	0.0011	0.0019	**0.0013**	**0.0015**	**0.0024**	0.0011	**0.00072**	**0.0008**	0.00024	0.0185	0.00098	**0.0011**	<0.0010	0.00095	**0.0029**	0.0039
MW-13	10/31/2003	--	<0.021	0.0195	0.0101	<0.021	<0.021	*<0.021*	<0.021	**0.161**	**0.227**	*<0.021*	**0.0277**	0.466	0.0157	0.0382	**0.025**	**0.0196**	**0.0193**	0.0078	**0.0167**	**0.0222**	*<0.0042*	0.182	0.257	**0.0098**	**0.167**	**2.49**	**0.254**	0.116
MW-13	2/18/2004	--	<0.021	0.0114 J	<0.021	<0.021	<0.021	*<0.021*	<0.021	**0.107**	**0.216**	*<0.021*	**0.0106 J**	0.562	0.01 J	0.052	**0.0204**	**0.0118**	**0.0125**	0.0054	**0.0113**	**0.0175**	*<0.0042*	**0.248**	0.325	**0.0067**	**0.179**	**1.42**	**0.491**	0.161
MW-13	9/9/2004	--	<0.048	<0.048	<0.048	<0.048	<0.048	*<0.048*	<0.048	**0.273**	**0.242**	*<0.048*	*<0.019*	0.387	0.0129 J	0.0364	**0.0227**	**0.0235**	**0.0241**	0.0106	**0.0173**	**0.02**	**0.0037 J**	0.188	0.232	**0.0133**	**0.234**	**2.91**	**0.287**	0.137
MW-13	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0025 J	0.0036 J	<0.005	*<0.0010*	0.0281	0.0018	0.0028	**0.0024**	**0.0046**	**0.0049**	0.0024	**0.0028**	**0.0028**	**0.00058**	0.0272	0.004	**0.0032**	0.00067 J	0.0032	0.0118	0.0128
MW-13	7/26/2007	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0019	0.0036	0.0032	*< 0.0038*	0.0074	< 0.0038	0.0019 J	**0.0012**	**0.0032**	**0.0036**	0.003	**0.0014**	**0.0018**	**0.00031 J**	0.0143	0.0039	**0.0033**	< 0.0038	0.0028	0.0089	0.011
MW-13	11/18/2008	39.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	0.000062 J	<0.000062 J	<0.00020	<0.00020	<0.00020	0.00037 J	<0.00098	0.000060 J	<0.00098	<0.00098	<0.00098	<0.00098
MW-13	12/15/2009	51.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.03	**0.0332**	<0.0050	*<0.010*	0.109	<0.010	<0.010	*<0.0020*	*<0.0020*	*<0.0020*	<0.0020	*<0.0020*	*<0.0020*	*<0.0020*	<0.010	0.0456	*<0.0020*	0.0174	0.401	0.0157	<0.010
MW-13	6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0307	**0.0268**	<0.0049	**0.0825**	<0.0049	<0.0049	<0.0049	*<0.00098*	*<0.00098*	*<0.00098*	<0.00098	*<0.00098*	*<0.00098*	*<0.00098*	0.0147	0.037	*<0.00098*	0.0163	0.207	**0.031**	0.0079
MW-13	11/29/2011	149.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0428	**0.0253**	<0.0048	*<0.048*	0.0886	<0.048	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	<0.048	0.914	<0.048	<0.048
MW-13	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-14S	8/11/2003	--	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	**0.146**	**0.184**	*<0.020*	**0.0214**	0.314	0.0039	0.0198	**0.009**	**0.0052**	**0.0076**	0.0023	**0.0023**	**0.0074**	**0.00072**	0.0544	0.0178	**0.0028**	**0.246**	0.962	**0.189**	0.0308
MW-14S	10/31/2003	--	<0.054	<0.054	<0.054	<0.054	<0.054	*<0.054*	<0.054	**0.05**	**0.0447**	<0.0054	*<0.0043*	0.127	0.0023	0.0055	**0.0019**	**0.001**	**0.0012**	0.00044	**0.00074**	**0.0016**	*< 0.00087*	0.0163	0.0648	**0.00048**	<0.0043	0.0017	0.0224	0.0094
MW-14S	2/17/2004	--	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	**0.169**	**0.184**	*<0.020*	*<0.020*	0.36	<0.020	0.0131 J	**0.004**	**0.0025 J**	**0.0028 J**	<0.004	<0.004	**0.0039 J**	*<0.004*	0.0255	0.184	*<0.004*	**0.354**	**4.01**	**0.137**	0.015 J
MW-14S	9/9/2004	--	<0.019	<0.019	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.178**	**0.176**	*<0.019*	*< 0.0096*	0.265	0.0059 J	0.014	**0.0045**	**0.0029**	**0.0031**	0.0014 J	**0.002**	**0.0039**	*<0.00109*	0.0294	0.152	**0.0026**	**0.18**	**1.26**	**0.112**	0.0177
MW-14S	8/1/2006	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	**0.13**	**0.106**	<0.0053	<0.0010	0.0263	<0.0010	0.00062 J	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0012	0.0119	<0.00020	0.0041	0.0199	0.0052	0.00067 J
MW-14S	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0434**	**0.0421**	<0.0049	<0.00098	0.0668	0.00064 J	0.0022	**0.00065**	**0.00045**	**0.00063**	0.00024	**0.00032**	**0.00063**	0.000065 J	0.0062	0.0279	0.00024	0.0027	0.0425	**0.0236**	0.0048
MW-14S	11/20/2008	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-14S	12/11/2009	76.6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0014	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-14S	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0317	**0.0327**	0.0112	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-14S	11/29/2011	72.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-14S	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-14D	8/11/2003	--	<0.050	0.325	0.119	0.105	0.0702	<0.050	<0.050	**0.471**	**0.393**	*<0.050*	**0.319**	0.519	0.0373	0.0426	**0.0214**	**0.0115**	**0.0151**	0.0041	**0.006**	**0.017**	*<0.008*	0.126	0.315	**0.0054**	**1.11**	**12.90**	**0.435**	0.0705
MW-14D	10/31/2003	--	<0.050	0.701	0.403	0.321	0.231	<0.050	<0.050	**0.501**	**0.317**	*<0.050*	**0.513**	0.517	*<0.1*	<0.1	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	0.0265	0.273	*<0.020*	**1.01**	**12.10**	**0.226**	<0.10
MW-14D	2/17/2004	--	<0.052	**0.911**	0.459	0.467	0.292	*<0.052*	<0.052	**0.474**	**0.563**	*<0.052*	**0.707**	0.84	0.0706 J	0.12	**0.0902**	**0.0453**	**0.0463**	0.0165 J	**0.0378**	**0.0741**	*<0.021*	**0.485**	0.631	**0.0187 J**	**1.32**	**13.30**	**1.12**	0.312
MW-14D	9/9/2004	--	<0.048	**0.879**	0.493	0.403	0.307	*<0.048*	<0.048	**0.519**	**0.497**	*<0.048*	**1.05**	0.686	0.0622 J	0.0671 J	**0.0429**	**0.0221**	**0.023**	<0.019	**0.0154 J**	**0.0292**	*<0.019*	**0.227**	0.456	**0.0189 J**	**1.36**	**11.50**	**0.626**	0.138
MW-14D	8/2/2006	--	<0.05	0.189	0.0896	0.0652	0.575	*<0.05*	<0.05	**0.387**	**0.641**	*<0.05*	**0.292**	1.00	0.07	0.166	**0.146**	**0.0747**	**0.0715**	0.0266	**0.06**	**0.116**	**0.0069 J**	**0.684**	0.72	**0.036**	**0.838**	**2.87**	**1.42**	0.445
MW-14D	7/24/2007	--	<0.05	0.509	<0.05	0.225	0.176	*<0.05*	<0.05	**0.43**	**0.311**	*<0.05*	**0.712**	0.404	0.0347	< 0.02	**0.0055**	**0.0024 J**	**0.0029 J**	<0.004	*<0.004*	**0.0041**	*<0.004*	0.0411	0.232	**0.0011 J**	**0.766**	**9.41**	**0.228**	0.0295
MW-14D	11/20/2008	16.8	0.0065 J	0.236	0.0857	0.0771	0.0684	*<0.019*	<0.019	**0.392**	**0.317**	*<0.019*	**0.183**	0.471	<0.096	<0.096	**0.0254**	**0.0113 J**	**0.0156 J**	<0.019	**0.0052 J**	**0.0183**	*<0.019*	0.144	0.319	<0.019	**0.773**	**9.55**	**0.434**	0.0892
MW-14D	12/17/2009	13.5	<0.096	0.138	<0.096	<0.096	<0.096	*<0.096*	<0.096	**0.291**	**0.312**	*<0.096*	*<0.19*	0.496	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.314	*<0.19*	*<0.19*	<0.19	*<0.19*	<0.19
MW-14D	12/21/2010	30.9	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	**0.216**	**0.203**	*<0.019*	*<0.19*	0.277	*<0.19*	<0.19	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.19	<0.19	*<0.039*	**0.404**	**4.26**	**0.21**	<0.19
MW-14D	11/29/2011	33.1	<0.019	0.367	0.168	0.0816	0.0515	<0.019	<0.019	**0.332**	**0.331**	*<0.019*	*<0.19*	0.471	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.274	*<0.038*	**0.711**	**6.23**	**0.358**	<0.19
MW-14D	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-15S	8/11/2003	--	<0.052	**0.751**	0.451	0.42	0.0858	<0.052	<0.052	**0.377**	**0.967**	*<0.052*	*<0.210*	1.39	**0.13**	0.35	**0.33**	**0.184**	**0.292**	0.0597	**0.082**	**0.278**	*<0.042*	**1.58**	1.1	**0.0766**	**1.55**	**12.50**	**2.67**	**0.925**
MW-15S	10/30/2003	--	<0.020	0.297	0.191	0.0996	0.0216	<0.020	<0.020	**0.12**	**0.23**	*<0.020*	*<0.100*	0.415	*<0.100*	0.0335	**0.0141**	**<0.020**	**<0.020**	<0.020	*<0.020*	**0.0102**	*<0.020*	0.0964	0.231	**<0.020**	**0.628**	**6.40**	**0.323**	0.0615
MW-15S	2/17/2004	--	<0.054	**2.08**	1.12	1.22	0.382	<0.054	<0.054	**0.222**	**0.391**	*<0.054*	*< 0.086*	0.617	0.0555 J	0.0635 J	**0.0549**	**0.0284**	**0.0294**	0.0092 J	**0.0258**	**0.0463**	*<0.017*	**0.266**	0.339	**0.0125 J**	**1.21**	**13.10**	**0.665**	0.171
MW-15S	9/9/2004	--	<0.020	0.0507	0.0096	<0.020	<0.020	<0.020	<0.020	**0.103**	**0.243**	*<0.020*	*<0.010*	0.263	0.0275	0.0399	**0.0324**	**0.0186**	**0.0192**	0.0064	**0.0139**	**0.024**	**0.0023**	0.126	0.189	**0.0091**	**0.342**	**1.21**	**0.299**	0.0903
MW-15S	8/1/2006	--	<0.1	0.435	0.176	0.0685 J	<0.1	<0.1	<0.1	**0.153**	**0.318**	*<0.1*	*< 0.08*	0.526	0.0436 J	0.0452 J	**0.0376**	**0.021**	**0.0204**	<0.016	**0.018**	**0.0318**	*<0.016*	0.169	0.272	**0.0096 J**	**0.374**	**6.29**	**0.465**	0.107
MW-15S	7/24/2007	--	Well destroyed during walk path construction in October 2006																											
MW-15D	8/14/2003	--	<0.052	0.69	0.234	0.139	0.0576	*<0.052*	<0.052	**0.288**	**0.198**	*<0.052*	*<0.100*	0.429	*<0.100*	<0.100	*<0.021*	*<0.021*	*<0.021*	<0.021	*<0.021*	*<0.021*	*<0.021*	0.0269	0.192	*<0.021*	**0.868**	**11.00**	**0.177**	<0.100
MW-15D	10/30/2003	--	<0.057	0.703	0.298	0.263	0.0976	*<0.057*	<0.057	**0.4**	**0.615**	*<0.057*	**0.0633**	0.853	0.066	0.134	**0.124**	**0.0621**	**0.0676**	0.0198	**0.0497**	**0.0962**	**0.0053**	**0.587**	0.683	**0.025**	**1.6**	**12.50**	**1.32**	0.376
MW-15D	2/18/2004	--	*<0.140*	**0.92**	0.42	0.293	0.136 J	*<0.140*	*<0.140*	**0.611**	**1.67**	*<0.141*	*<0.110*	**2.26**	**0.141**	0.497	**0.505**	**0.252**	**0.274**	0.0869	**0.204**	**0.396**	**0.0233**	**2.42**	**2.06**	**0.106**	**2.74**	**16.70**	**4.72**	**1.64**
MW-15D	9/9/2004	--	*<0.19*	**1.67**	0.66	0.712	0.282	*<0.19*	*<0.19*	**4.34**	**25.5**	*<0.19*	*<1.9*	**27.1**	**1.85**	7.44	**8.4**	**4.39**	**4.41**	1.46	**3.29**	**5.67**	**0.529**	**35**	**27.3**	**2**	**28.9**	**77.70**	**58.6**	**22.7**
MW-15D	8/1/2006	--	<0.021	0.595	0.224	0.185	0.0717	*<0.021*	<0.021	**0.247**	**0.327**	*<0.021*	*<0.042*	0.54	0.0245 J	0.0659	**0.0596**	**0.03**	**0.0282**	0.0094	**0.0267**	**0.0423**	*<0.0084*	**0.289**	0.365	**0.0128**	**0.334**	**1.42**	**0.649**	0.193
MW-15D	7/24/2007	--	<0.025	0.614	0.328	0.407	0.127	*<0.0250*	<0.0250	**0.316**	**0.369**	*<0.025*	*<0.02*	0.521	0.0234	0.0462	**0.0345**	**0.0168**	**0.018**	0.0061	**0.013**	**0.0246**	**0.0019 J**	0.172	0.338	**0.0082**	**0.474**	**1.89**	**0.513**	0.133
MW-15D	11/20/2008	32.9	<0.020	0.661	0.257	0.16	0.116	*<0.020*	<0.020	**0.278**	**0.213**	*<0.020*	*<0.100*	0.322	*<0.100*	<0.100	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.100	0.192	*<0.020*	**0.484**	**6.270**	**0.190**	<0.100
MW-15D	12/17/2009	15.9	<0.095	0.298	0.102	<0.095	<0.095	<0.095	<0.095	**0.363**	**0.308**	*<0.095*	*<0.19*	0.492	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.27	*<0.038*	**0.709**	**8.880**	**0.280**	<0.19
MW-15D	12/21/2010	118.0	<0.020	0.506	0.239	0.132	0.102	<0.020	<0.020	**0.29**	**0.212**	*<0.020*	*<0.20*	0.398	*<0.20*	<0.20	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.20	<0.20	*<0.039*	**0.642**	**6.460**	**0.208**	<0.20
MW-15D	7/15/2015	0.0	<0.022	0.233	0.0922	0.0458	0.0745	<0.022	<0.022	**0.3**	*<0.022*	*<0.022*	*<0.11*	0.333	*<0.11*	<0.11	*<0.022*	*<0.022*	*<0.022*	<0.022	*<0.022*	*<0.022*	*<0.022*	<0.11	0.176	*<0.022*	**0.487**	**7.440**	**0.163**	<0.11

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
		1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-16S	8/11/2003		--	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	**0.591**	**1.19**	*<0.020*	**0.0624**	1.56	0.0509	0.444	**0.213**	**0.117**	**0.166**	0.044	**0.05**	**0.206**	**0.0136**	**1.06**	1.16	**0.0566**	**1.28**	**8.31**	**2.31**	0.596
MW-16S	10/30/2003		--	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	**0.255**	**0.448**	*<0.020*	**0.0465**	0.675	<0.04	0.0643	**0.0265**	**0.0129**	**0.0128**	0.0042	**0.0116**	**0.0259**	*<0.008*	0.147	0.401	**0.0052**	**0.453**	**3.99**	**0.475**	0.093
MW-16S	2/18/2004		--	<0.021	<0.021	<0.021	<0.021	<0.021	*<0.021*	<0.021	**0.188**	**0.457**	*<0.021*	**0.0098 J**	0.685	0.018 J	0.112	**0.0557**	**0.0264**	**0.0276**	0.0088	**0.022**	**0.0552**	**0.0028 J**	**0.289**	0.47	**0.0106**	**0.233**	**2.95**	**0.705**	0.194
MW-16S	9/9/2004		--	<0.097	<0.097	<0.097	<0.097	<0.097	*<0.097*	<0.097	**0.442**	**0.992**	*<0.097*	*<0.039*	1.37	0.0478	0.578	**0.276**	**0.138**	**0.134**	0.0478	**0.0967**	**0.272**	**0.0156**	**1.06**	1.05	**0.0622**	**0.291**	**2.39**	**2.16**	0.682
MW-16S	8/1/2006		--	<0.025	<0.025	<0.025	<0.025	<0.025	*<0.025*	<0.025	**0.236**	**0.403**	*<0.025*	**0.0044 J**	0.654	0.0173	0.112	**0.0506**	**0.0275**	**0.0277**	0.0086	**0.0202**	**0.0514**	**0.0028**	**0.249**	0.403	**0.012**	**0.251**	**1.79**	**0.589**	0.161
MW-16S	7/24/2007		--	<0.05	<0.05	<0.05	<0.05	<0.05	*<0.05*	<0.05	**0.183**	**0.301**	*<0.05*	*< 0.02*	0.515	0.0113 J	0.168	**0.0785**	**0.0427**	**0.0483**	0.0146	**0.0281**	**0.0835**	**0.0046**	**0.369**	0.396	**0.0195**	**0.0541**	0.451	**0.507**	0.264
MW-16S	11/20/2008		23.1	<0.005	<0.005	0.001 J	<0.005	<0.005	<0.005	<0.005	**0.0926**	**0.0997**	<0.005	*<0.010*	0.268	<0.010	0.0104	**0.00089 J**	*<0.002*	*<0.002*	<0.002	*<0.002*	*<0.002*	*<0.002*	0.0238	0.139	*<0.020*	<0.010	0.0025 J	**0.0428**	0.011
MW-16S	12/11/2009		58.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0849**	**0.151**	<0.0048	*<0.0095*	0.325	*<0.0095*	0.0121	*<0.00109*	*<0.00109*	*<0.00109*	<.0019	*<0.00109*	*<0.00109*	*<0.00109*	0.0203	0.177	*<0.00109*	<0.0095	0.217	**0.071**	0.0126
MW-16S	12/14/2010		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.02	**0.0366**	<0.0049	*<0.0039*	0.136	0.0049	0.0049	*<0.00078*	*<0.00078*	*<0.00078*	<0.00078	*<0.00078*	**0.001**	<0.00078	0.0153	0.055	<0.00078	<0.0039	0.0254	<0.0039	0.0055
MW-16S	12/14/2011		76.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0491**	**0.107**	<0.0048	*<0.0096*	0.227	<0.0096	0.0122	*<0.0019*	*<0.0019*	*<0.0019*	<0.0019	*<0.0019*	*<0.0019*	*<0.0019*	0.0288	0.128	<0.0019	<0.0096	<0.0096	0.0334	0.0143
MW-16S	7/16/2015		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0579**	**0.0496**	<0.0048	*<0.00096*	0.183	0.0022	0.0141	**0.0031**	**0.0014**	**0.0013**	0.00045	**0.00093**	**0.0031**	<0.00019	0.0297	0.111	**0.0007**	<0.00096	0.0124	0.0068	0.0153
MW-16S	3/26/2018		25.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0315**	**0.0699**	<0.0048	*0.0013*	0.189	0.0021	0.0039	*<0.0019*	*<0.0019*	*<0.0019*	<0.0019	*<0.0019*	*<0.0019*	*<0.0019*	0.0094	0.0881	**<0.00019**	0.0043	0.3440	0.0129	0.0037
MW-16D	8/11/2003		--	< 0.023	0.103	0.048	0.0405	0.0262	*< 0.023*	< 0.023	**0.324**	**0.454**	**0.0241**	**0.0871**	0.607	< 0.092	0.175	**0.104**	**0.0596**	**0.0839**	0.0229	**0.0256**	**0.0969**	*<0.018*	**0.499**	0.495	**0.0271**	**0.711**	**6.51**	**1.05**	0.286
MW-16D	10/30/2003		--	<0.022	0.188	0.0797	0.0581	0.0387	*<0.022*	<0.022	**0.399**	**0.292**	*<0.022*	**0.126**	0.463	<0.043	0.0304	**0.0098**	**0.0051**	**0.0049**	<0.0086	**0.0044**	**0.0087**	*<0.0086*	0.0538	0.248	*<0.0086*	**0.965**	**10.70**	**0.229**	0.0327
MW-16D	2/18/2004		--	<0.100	0.164	0.0743 J	0.0452 J	<0.100	*<0.100*	<0.100	**1.78**	**7.42**	*<0.100*	**0.149 J**	**8.07**	**0.948**	2.17	**2.52**	**1.27**	**1.19**	0.433	**0.922**	**2.03**	**0.109**	**10.00**	**8.15**	**0.519**	**9.83**	**42.00**	**23.00**	**7.02**
MW-16D	9/9/2004		--	*<0.97*	*<0.97*	<0.970	<0.970	<0.97	*<0.97*	*<0.97*	**2.66**	**12.2**	*<0.97*	**0.13 J**	**10.8**	**1.34**	3.15	**3.63**	**1.93**	**1.76**	0.691	**1.26**	**2.55**	**0.245**	**13.60**	**11.00**	**0.898**	**14.7**	**50.60**	**28.20**	**8.78**
MW-16D	8/2/2006		--	<0.021	0.0729	0.0356	0.0231	0.0123 j	*<0.021*	<0.021	**0.19**	**0.176**	*<0.021*	*<0.011*	0.31	0.0093 J	0.0132	**0.0018 J**	*<0.0021*	**0.00089 J**	<0.0021	*<0.0021*	**0.0011 J**	*<0.0021*	0.0151	0.167	*<0.0021*	**0.0365**	0.0197	**0.116**	0.0093 J
MW-16D	7/24/2007		--	<0.1	0.0801 J	<0.1	0.0279 J	<0.1	*<0.1*	<0.1	**0.465**	**0.699**	*<0.1*	*<0.05*	0.839	0.0537	0.116	**0.125**	**0.0673**	**0.071**	0.0237	**0.0516**	**0.0935**	**0.0067 J**	**0.529**	0.627	**0.0313**	**0.97**	**6.55**	**1.17**	0.389
MW-16D	11/19/2008		2.4	<0.096	0.0839 J	0.0377 J	0.0233 J	<0.096	<0.096	<0.096	**0.368**	**0.254**	*<0.096*	*<0.19*	0.353	<0.190	<0.190	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.190	0.178 J	*<0.038*	**0.556**	**7.280**	**0.132 J**	<0.190
MW-16D	12/17/2009		1.5	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	<0.096	**0.355**	**0.307**	*<0.096*	*<0.19*	0.459	*<0.190*	<0.190	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.190	0.222	*<0.038*	**0.653**	**7.570**	*<0.190*	*<0.190*
MW-16D	12/21/2010		62.3	<0.020	0.0618	0.0239	<0.020	<0.020	<0.020	<0.020	**0.316**	**0.233**	*<0.020*	*<0.20*	0.387	*<0.20*	<0.20	*<0.040*	*<0.040*	*<0.040*	<0.040	*<0.040*	*<0.040*	*<0.040*	<0.20	<0.20	*<0.040*	**0.66**	**6.790**	*<0.20*	<0.20
MW-16D	7/15/2015		298.0	<0.020	0.05	0.0213	<0.020	<0.020	<0.020	<0.020	**0.221**	**0.212**	*<0.020*	*<0.10*	0.284	*<0.10*	<0.10	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.10	0.14	*<0.020*	**0.392**	**4.800**	**0.101**	<0.10
MW-17S	8/12/2003		--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013	0.0038	0.0039	*<0.004*	0.0076	<0.004	0.0029	**0.0114**	**0.0111**	**0.0192**	0.0057	**0.0051**	**0.0092**	**0.0015**	0.026	0.004	**0.0069**	0.0018	0.0061	0.0131	0.0173
MW-17S	10/31/2003		--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	**0.00058**	**0.0008**	**0.0011**	0.0005	**0.00063**	**0.00055**	<0.00020	0.001	<0.0010	**0.00057**	<0.0010	0.00036	0.00058	0.00076
MW-17S	2/18/2004		--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	**0.00078**	**0.0011**	**0.0014**	0.0008	**0.00091**	**0.00086**	0.00018 J	0.0012	<0.0010	**0.00082**	<0.0010	0.00051 J	0.00049 J	0.0011
MW-17S	9/9/2004		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0014 J	<0.0048	0.00058 J	0.0014	<0.00096	0.00058 J	**0.00093**	**0.00082**	**0.00089**	0.00045	**0.00065**	**0.00069**	0.00015 J	0.0029	0.0016	**0.00057**	0.00094 J	0.0018	0.0048	0.002
MW-17S	8/1/2006		--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00076 J	<0.0010	<0.0010	<0.0010	**0.00042**	**0.00063**	**0.00077**	0.00042	**0.00053**	**0.00037**	0.000091 J	0.00059 J	<0.0010	**0.00053**	<0.0010	<0.0010	<0.0010	0.00051 J
MW-17S	7/26/2007		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00068**	**0.00093**	**0.0012**	0.00061	**0.00076**	**0.00062**	0.00015	0.001	<0.00095	**0.00077**	<0.00095	0.00029	<0.00095	0.00095
MW-17S	11/18/2008		23.6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-17S	12/15/2009		161.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00022**	**0.00032**	**0.00049**	0.00021	<0.00019	**0.00021**	<0.00019	<0.00095	<0.00095	0.00025	<0.00095	<0.00095	<0.00095	<0.00095
MW-17S	6/22/2011		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-17S	7/10/2012		187.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0132**	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	**0.00025**	**0.00043**	0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	0.00025	<0.00095	<0.00095	<0.00095	<0.00095
MW-17S	7/14/2015		589.0	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	**0.00021**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00094	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-17S	4/9/2018		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-17D	8/12/2003		--	<0.020	0.285	0.198	0.0952	0.0978	*<0.020*	<0.020	**0.147**	**0.0817**	*<0.020*	*<0.04*	0.131	<0.04	<0.04	*<0.008*	*<0.008*	*<0.008*	<0.008	*<0.008*	*<0.008*	*<0.008*	<0.04	0.0731	*<0.008*	**0.259**	**4.80**	**0.0612**	<0.04
MW-17D	10/31/2003		--	<0.024	0.382	0.252	0.168	0.116	*<0.024*	<0.024	**0.151**	**0.0694**	*<0.024*	*<0.049*	0.144	<0.049	<0.049	*<0.0098*	*<0.0098*	*<0.0098*	<0.0098	*<0.0098*	*<0.0098*	*<0.0098*	<0.049	0.0706	*<0.0098*	**0.227**	**4.62**	**0.0559**	<0.049
MW-17D	2/18/2004		--	<0.021	0.23	0.167	0.0889	0.0891	*<0.021*	<0.021	**0.217**	**0.108**	*<0.021*	*<0.021*	0.203	0.014 J	0.0089 J	*<0.0042*	*<0.0042*	*<0.0042*	<0.0042	*<0.0042*	*<0.0042*	*<0.0042*	0.0063 J	0.109	*<0.0042*	**0.262**	**5.68**	**0.0877**	<0.021
MW-17D	9/9/2004		--	<0.020	0.286	0.151	0.0971	0.0747	*<0.020*	<0.020	**0.233**	**0.141**	*<0.020*	*<0.010*	0.197	0.0158	0.0094 J	*<0.002*	<0.002	<0.002	<0.002	<0.002	<0.002	*<0.002*	0.0092 J	0.115	*<0.002*	**0.313**	**4.63**	**0.101**	0.0052 J
MW-17D	8/1/2006		--	<0.025	0.153	0.0847	0.0265	0.012 J	*<0.025*	<0.025	**0.202**	**0.114**	*<0.025*	*<0.01*	0.193	0.0112	0.0985	*<0.002*	<0.002	<0.002	<0.002	<0.002	<0.002	*<0.002*	0.0077 J	0.107	*<0.002*	**0.155**	**2.23**	**0.0978**	0.0042 J
MW-17D	7/26/2007		--	<0.025	0.129	0.0729	0.0186 J	<0.025	*<0.025*	<0.025	**0.234**	**0.129**	*<0.025*	*<0.01*	0.179	0.0122	<0.01	*<0.002*	<0.002	<0.002	<0.002	<0.002	<0.002	*<0.002*	0.0114	0.101	*<0.002*	**0.169**	**2.25**	**0.101**	0.0072
MW-17D	11/18/2008		31.1	<0.0049	0.0154	<0.0049	0.0013 J	<0.0049	<0.0049	<0.0049	0.0052	<0.0049	<0.0049	<0.00097	0.004	<0.00097	0.00073 J	0.000069 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0012	0.0031	<0.00019	<0.00097	0.0030 J	0.0065	0.00083 J
MW-17D	12/15/2009		5.3	<0.0048	0.006	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0051	<0.0048	<0.0048	<0.00096	0.0026	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.002	0.0021	<0.00019	<0.00096	<0.00096	0.005	0.0016
MW-17D	6/24/2011		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0166	**0.0177**	0.0086	<0.00097	0.0187	<0.00097	0.0036	**0.00026**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0086	0.0138	<0.00019	0.006	0.0265	**0.0343**	0.0046
MW-17D	7/13/2012		108.0	<0.0048	0.021	0.0133	0.0083	0.0085	<0.0048	<0.0048	0.0096	<0.0048	<0.0048	<0.0038	0.0107	<0.0038	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	<0.0038	<0.00076	0.0156	0.356	<0.0038	<0.038
MW-17D	7/14/2015		17.2	<0.0048	0.0056	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0176	0.0154	<0.0048	<0.00095	0.0225	0.0017	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0013	0.0143	<0.00010	0.0221	0.213	0.0131	<0.00055
MW-17D	3/14/2018		35.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096
MW-18S	8/12/2003		--	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	*<0.0010*	<0.0010	<0.0010	0.00068	**0.0033**	**0.0049**	**0.0069**	0.0031	**0.0021**	**0.0037**	**0.00076**	0.0052	<0.0010	**0.0039**	<0.0010	0.00032	0.002	0.0043
MW-18S	10/31/2003		--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	**0.00018**	**0.00025**	**0.00032**	0.00019	0.00019	**0.00023**	<0.00020	0.00028	<0.0010	0.00022	<0.0010	<0.0010	<0.0010	0.00026
MW-18S	2/18/2004		--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	0.00073 J	**0.0035**	**0.0046**	**0.0049**	0.0034	**0.0035**	**0.004**	**0.00062**	0.0058	<0.0010	**0.0036**	<0.0010	0.00028 J	0.0021	0.0051
MW-18S	9/9/2004		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00098**	**0.0012**	**0.0013**	0.00079	**0.00083**	**0.00095**	0.00019	0.0019	0.0004	**0.00097**	<0.00095	0.00036	0.0017	0.0015
MW-18S	8/1/2006		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0010	<0.0010	<0.0010	<0.0010	**0.00026**	**0.00036**	**0.0004**	0.00024	**0.00028**	**0.0003**	<0.00020	0.00039 J	<0.0010	0.00032	<0.0010	<0.0010	<0.0010	0.00034 J
MW-18S	7/24/2007		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.0009**	**0.0013**	**0.0014**	0.00079	**0.00081**	**0.001**	0.00019	0.0013	<0.00095	**0.001**	<0.00095	<0.00095	0.00050 J	0.0014
MW-18S	11/18/2008		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00013 J**	0.00018 J	**0.00024**	0.00010 J	0.000076 J	0.00014 J	<0.00019	<0.00095	<0.00095	0.00012 J	<0.00095	<0.00095	<0.00095	<0.00095
MW-18S	12/15/2009		0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-18S	6/22/2011		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-18S	7/15/2015		61.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.00098	<0.00098	<0.00020	<0.00098	0.0029	<0.00098	<0.00098
MW-18S	3/13/2018		10.7	Insufficient water to collect for SVOCs																											

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-18D	8/12/2003	--	< 0.0074	0.012	0.0034	< 0.0074	< 0.0074	< 0.0074	< 0.0074	0.0362	**0.0409**	*< 0.0074*	*<0.0010*	0.0875	0.0019	0.0023	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	0.001	0.0391	<0.00020	0.0283	0.327	0.0192	0.00061
MW-18D	10/31/2003	--	<0.0058	0.0109	0.0028	<0.0058	<0.0058	<0.0058	<0.0058	0.0233	0.0146	<0.0058	*<0.0010*	0.0537	0.0031	<0.0023	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	0.0023	0.023	<0.00020	<0.0010	0.00037	0.0142	0.0014
MW-18D	2/18/2004	--	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	*<0.0010*	0.0011	<0.0010	<0.0010	**0.00011 J**	0.00016 J	0.00016 J	0.00011 J	0.00013 J	0.00012 J	<0.00020	0.00034 J	<0.0010	<0.00020	<0.0010	0.00042 J	<0.0010	0.00032 J
MW-18D	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	0.00065 J	<0.0010	<0.0010	**0.00013 J**	**0.00034**	**0.00035**	0.00021	0.00019 J	0.00017 J	<0.00020	0.00026 J	<0.0010	0.00026	<0.0010	<0.0010	<0.0010	<0.0010
MW-18D	7/24/2007	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0016 J	0.0063	<0.005	<0.0010	0.0167	0.00065	0.00089	**0.00039**	**0.00085**	**0.00088**	0.00056	**0.00051**	**0.00058**	0.00013 J	0.0027	0.0126	**0.00062**	<0.0010	0.0022	0.0014	0.0018
MW-18D	11/18/2008	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-18D	12/15/2009	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0015	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0013	<0.00097	<0.00019	<0.00097	<0.00097	0.0029	<0.00097
MW-18D	6/24/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0051	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0023	0.0026	<0.00019	<0.00096	0.0021	0.0032	0.0013
MW-18D	7/10/2012	84.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0054	<0.00095	<0.00095	*<0.00019*	**0.00027**	**0.00038**	0.0002	<0.00019	<0.00019	<0.00019	0.0012	0.0022	0.00025	0.0026	0.022	0.0024	<0.00095
MW-18D	7/15/2015	3.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00098	0.0014	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.00098	<0.00098	<0.00020	<0.00098	0.0029	<0.00098	<0.00098
MW-18D	3/13/2018	3.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0013	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	*<0.00020*	<0.0010	<0.0010	<0.0010	<0.0010
MW-19S	10/31/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	**0.00062**	**0.0013**	**0.0017**	0.00094	**0.001**	**0.00082**	0.00017	0.00069	<0.0010	**0.001**	<0.0010	<0.0010	<0.0010	0.00079
MW-19S	2/18/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	0.0011	0.001	**0.0039**	**0.006**	**0.0078**	0.0043	**0.0049**	**0.0048**	**0.0011**	0.0049	<0.0010	**0.0049**	<0.0010	<0.0010	0.00087 J	0.005
MW-19S	12/15/2009	87.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	**0.00094**	**0.0017**	**0.0027**	0.0013	**0.00075**	**0.0011**	**0.00027**	0.0013	<0.00098	**0.0015**	<0.00098	<0.00098	<0.00098	0.0014
MW-19S	6/22/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	0.00019	**0.00025**	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-19S	7/15/2015	742.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	**0.00024**	**0.00045**	0.00021	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	0.00027	<0.00096	<0.00096	<0.00096	<0.00096
MW-19S	3/13/2018	--	Insufficient water to collect sample																											
MW-19D	8/12/2003	--	< 0.0091	0.0534	0.0275	0.0143	< 0.0091	< 0.0091	< 0.0091	0.0149	**0.0208**	*< 0.0091*	*< 0.0073*	0.0279	< 0.0073	0.0075	**0.0152**	**0.0165**	**0.0265**	0.0075	**0.0068**	**0.0152**	**0.0018**	0.043	0.0255	**0.0092**	0.0073	0.136	**0.0585**	0.0279
MW-19D	10/31/2003	--	<0.011	0.155	0.0482	0.0175	<0.011	*<0.011*	<0.011	0.0377	**0.0284**	*<0.011*	**0.0423**	0.0735	0.0088	<0.0045	**0.0018**	**0.0013**	**0.0016**	0.00062	**0.001**	**0.0014**	*< 0.00091*	0.0117	0.0298	**0.00071**	0.0254	0.137	0.018	0.0073
MW-19D	2/18/2004	--	<0.021	0.207	0.0739	0.0338	<0.021	*<0.021*	<0.021	0.015 J	**0.0217**	*<0.021*	**0.0532**	0.111	0.0163	0.0046	**0.00056 J**	*< 0.00083*	*< 0.00083*	< 0.00083	*< 0.00083*	*< 0.00083*	*< 0.00083*	0.0101	0.0289	*< 0.00083*	0.0288	0.276	0.0137	0.006
MW-19D	9/9/2004	--	<0.052	0.396	0.122	0.0936	<0.052	*<0.052*	<0.052	**0.393**	**1.89**	*<0.052*	**0.119**	**2.35**	**0.268**	0.606	**0.714**	**0.378**	**0.354**	0.134	**0.304**	**0.474**	**0.0426**	**2.98**	**2.22**	**0.178**	**2.52**	**8.46**	**5.06**	**1.98**
MW-19D	8/2/2006	--	<0.047	0.379	0.126	0.102	0.0216 J	*<0.047*	<0.047	**0.127**	**0.199**	*<0.047*	**0.119**	0.32	0.0377 J	<0.059	*<0.012*	*<0.012*	*<0.012*	<0.012	*<0.012*	*<0.012*	*<0.012*	0.0191 J	0.164	*<0.012*	**0.287**	**2.82**	**0.137**	<0.059
MW-19D	7/24/2007	--	<0.048	0.486	<0.048	0.106	0.025 J	*<0.048*	<0.048	**0.157**	**0.216**	*<0.048*	**0.118**	0.30	0.0398	<0.019	**0.0024 J**	*< 0.0038*	**0.0018 J**	<0.0038	*< 0.0038*	**0.002 J**	*< 0.0038*	0.0221	0.166	*<0.0038*	**0.167**	**3.64**	**0.143**	0.0168 J
MW-19D	11/18/2008	29.5	0.0142 J	0.156	0.0655	0.0827	0.133	*<0.020*	<0.020	0.0114 J	**0.0438**	*<0.020*	*<0.015*	0.0979	0.0133 J	<0.015	**0.0009 J**	*<0.003*	*<0.003*	<0.003	*<0.003*	*<0.003*	*<0.003*	0.0063 J	0.0381	*<0.003*	**0.032**	0.366	**0.0321**	0.004 J
MW-19D	12/17/2009	308.0	<0.020	0.392	0.125	0.0757	0.0764	<0.020	<0.020	**0.164**	**0.337**	<0.020	*<0.010*	0.603	<0.010	<0.010	**0.0716**	**0.0366**	**0.0528**	<0.020	<0.020	**0.0525**	<0.020	0.285	0.422	<0.020	**0.81**	**4.37**	**0.772**	0.264
MW-19D	12/16/2010	825.0	<0.050	0.238	0.0632	<0.050	<0.050	<0.050	<0.050	**0.125**	**0.202**	<0.050	*<0.020*	0.534	<0.020	<0.020	*<0.0040*	*<0.0040*	*<0.0040*	<0.0040	*<0.0040*	*<0.0040*	*<0.0040*	<0.020	0.0304	<0.0040	**0.0949**	**0.638**	**0.0352**	<0.020
MW-19D	7/15/2015	8.4	<0.047	0.517	0.103	0.088	<0.047	<0.047	<0.047	**0.222**	**0.221**	<0.047	*<0.094*	0.259	<0.094	<0.094	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.094	0.135	<0.019	**0.431**	**4.77**	**0.153**	<0.094
MW-19D	3/13/2018	28.3	<0.0050	0.146	0.0324	0.0241	<0.0050	<0.0050	<0.0050	NA	NA	<0.0050	*<0.050*	0.209	<0.050	<0.050	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	<0.050	*0.107*	<0.010	**0.347**	**3.33**	**0.106**	<0.050
MW-20S	11/13/2003	--	<0.0051	0.0115	0.0031	<0.0051	<0.0051	<0.0051	<0.0051	0.0285	**0.0236**	<0.0051	*<0.004*	0.0739	0.0024	0.0048	**0.0095**	**0.0064**	**0.0071**	0.0021	**0.0055**	**0.0073**	**0.0006**	0.0451	0.0283	**0.0026**	0.0018	0.12	**0.0249**	0.0282
MW-20S	2/19/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0012 J	<0.0051	*<0.010*	<0.010	0.0056 J	0.008 J	**0.0348**	**0.0317**	**0.0347**	0.0127	**0.0231**	**0.0345**	**0.0032**	0.0791	0.003 J	**0.0153**	<0.010	0.177	0.0112	0.0482
MW-20S	11/18/2008	--	<0.0049	<0.0021 J	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0094	0.0076	<0.0049	*<0.019*	0.0227	<0.019	<0.019	**0.0536**	**0.0566**	**0.0735**	0.0224	**0.0232**	**0.0479**	**0.0058**	0.09	0.0111 J	**0.029**	<0.019	0.0063 J	0.0105 J	0.0603
MW-20S	12/16/2009	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	*<0.00095*	0.0067	0.0022	0.0034	**0.0174**	**0.0186**	**0.024**	0.0078	**0.0083**	**0.0169**	**0.0023**	0.0203	0.004	**0.0099**	<0.00095	0.0021	0.0042	0.0208
MW-20S	12/14/2010	--	<0.0048	0.0059	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	*<0.0048*	0.0062	<0.0048	<0.0048	**0.009**	**0.012**	**0.0163**	0.0059	**0.0055**	**0.0091**	**0.0013**	0.0149	<0.0048	**0.0071**	<0.0048	0.14	<0.0048	0.0096
MW-20S	12/16/2011	853.0	<0.0048	0.0059	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0085	<0.00096	0.0023	0.0024	0.0031	**0.0137**	**0.0146**	**0.0181**	0.0057	**0.0072**	**0.0132**	**0.0022**	0.0165	0.002	**0.0086**	<0.00096	0.0012	0.0034	0.0129
MW-20S	7/14/2015	469.0	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.0067	0.0112	<0.0047	<0.00094	0.0202	0.0154	0.0109	**0.0641**	**0.0755**	**0.0807**	0.0274	**0.058**	**0.0704**	**0.0111**	0.0898	0.0107	**0.0432**	<0.00094	0.0041	0.0104	0.0547
MW-20S	3/15/2018	212.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0105	<0.00095	<0.00095	**0.00083**	**0.00091**	**0.00088**	0.00044	**0.00069**	**0.00092**	**<0.00019**	0.0012	0.0026	**0.00063**	0.0016	0.0345	0.0013	<0.00095
MW-20D	11/13/2003	--	<0.020	0.245	0.149	0.0629	0.079	*<0.020*	<0.020	**0.131**	**0.0973**	*<0.020*	**0.0545**	0.221	<0.04	0.0109	**0.0077**	**0.0042**	**0.0048**	<0.008	*<0.008*	**0.0051**	*<0.008*	0.0557	0.107	*<0.008*	**0.303**	**4.37**	**0.106**	0.0328
MW-20D	2/18/2004	--	<0.100	0.282	0.112	0.0593 J	.0441 J	*<0.100*	<0.100	**1.17**	**4.81**	*<0.100*	**0.107 J**	**5.92**	**0.598**	1.77	**1.94**	**0.982**	**0.965**	0.351	**0.728**	**1.52**	**0.0935**	**7.87**	**5.52**	**0.423**	**7.26**	**31.20**	**16.70**	**5.53**
MW-20D	9/10/2004	--	<0.100	0.212	0.114	<0.10	<0.10	*<0.10*	<0.10	**0.342**	**0.624**	*<0.100*	*<0.082*	0.861	**0.0853**	0.142	**0.13**	**0.0681**	**0.0646**	0.022	**0.056**	**0.0883**	**0.0104**	**0.555**	0.64	**0.034**	**1.49**	**9.63**	**1.10**	0.355
MW-20D	8/2/2006	--	< 0.08	0.217	0.0864	0.0394 J	< 0.08	*< 0.08*	< 0.08	**0.339**	**0.543**	*< 0.08*	*<0.10*	0.762	*<0.10*	0.102	**0.089**	**0.0485**	**0.0462**	0.0152 J	**0.0407**	**0.0654**	**< 0.02**	**0.406**	0.494	**0.0219**	**0.978**	**6.59**	**0.916**	0.271
MW-20D	7/26/2007	--	< 0.095	0.11	< 0.095	< 0.095	< 0.095	*< 0.095*	< 0.095	**0.428**	**0.853**	*< 0.095*	**0.0116 J**	1.21	0.0589	0.221	**0.219**	**0.139**	**0.154**	0.0473	**0.0929**	**0.183**	**0.0131**	**1.05**	0.956	**0.064**	**1.73**	**10.9**	**2.13**	0.752
MW-20D	11/18/2008	2.2	<0.0049	0.0072	0.0016 J	0.0016 J	<0.0049	<0.0049	<0.0049	0.0069	0.0062	<0.0049	*<0.0039*	0.0091	<0.0039	<0.0039	**0.00039 J**	**0.0003 J**	**0.0004 J**	<0.00078	*<0.00078*	*<0.00078*	*<0.00078*	0.0019 J	0.005	*<0.00078*	0.0109	0.1	0.0064	0.0015 J
MW-20D	12/17/2009	0.0	<0.00109	0.162	0.0414	0.0203	<0.00109	*<0.00109*	<0.00109	**0.231**	**0.307**	<0.00109	*<0.077*	0.476	*<0.077*	*<0.077*	**0.0302**	*<0.015*	**0.0207**	<0.015	*<0.015*	***0.0199***	*<0.015*	0.133	0.29	*<0.015*	**0.515**	**5.65**	**0.384**	**0.104**
MW-20D	12/21/2010	40.3	<0.049	<0.049	<0.049	<0.049	<0.049	*<0.049*	<0.049	**0.19**	**0.246**	*<0.049*	*<0.098*	0.399	*<0.098*	*<0.098*	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.098	0.211	*<0.020*	**0.452**	**3.34**	**0.241**	<0.098
MW-21S	11/13/2003	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.003	0.0033	<0.0010	0.0091	0.00054	0.00071	**0.00089**	**0.0011**	**0.0012**	0.00044	**0.00092**	**0.0008**	<0.00020	0.0029	0.0035	**0.00052**	<0.0010	0.00043	0.00062	0.0015
MW-21S	2/18/2004	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0014 J	<0.0054	*<0.0010*	0.0101	<0.0010	<0.0010	*<0.00020*	0.00016 J	0.00016 J	<0.00020	0.00012 J	0.00011 J	<0.00020	0.00058 J	0.0031	<0.00020	<0.0010	<0.0010	<0.0010	0.00030 J
MW-21S	9/10/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.006	<0.0010	0.008	<0.0010	<0.0010	*<0.0010*	**0.0014**	**0.0014**	0.00069	**0.0009**	**0.00099**	0.00022	0.0041	0.00059	**0.00086**	0.0004	0.0028	0.00088	0.0024
MW-21S	8/2/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	0.000055 J	<0.00020	0.00007 J	<0.00020	<0.00020	<0.00020	<0.00020	0.00051 J	0.00007 J	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-21S	7/26/2007	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.00099	0.0044	< 0.00099	< 0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0033	< 0.00099	<0.00020	< 0.00099	0.0003	< 0.00099	0.0016
MW-21S	11/18/2008	--	<0.076	0.0209 J	<0.076	<0.076	<0.076	*<0.076*	<0.076	**0.225**	**0.213**	*<0.076*	*<0.120*	0.36	*<0.120*	<0.120	**0.0092**	*<0.024*	**0.0063**	<0.024	*<0.024*	*<0.024*	*<0.024*	0.0485 J	0.185	*<0.024*	**0.448**	**3.580**	**0.211**	<0.120
MW-21S	12/16/2009	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.013	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0023	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-21S	12/14/2010	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-21S	7/14/2015	125.0	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00094	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-21S	4/9/2018	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-21D	11/13/2003	--	<0.022	0.0116	<0.022	<0.022	<0.022	*<0.022*	<0.022	**0.271**	**0.251**	*<0.022*	*<0.043*	0.445	<0.043	0.0147	*<0.0086*	*<0.0086*	*<0.0086*	<0.0086	*<0.0086*	*<0.0086*	*<0.0086*	0.0206	0.227	*<0.0086*	**0.74**	**7.35**	**0.193**	0.0121
MW-21D	2/18/2004	--	<0.021	0.0263	0.0105 J	<0.021	<0.021	*<0.021*	<0.021	**0.312**	**0.333**	*<0.021*	*<0.042*	0.551	<0.042	0.0241 J	**0.0055 J**	*<0.0084*	*<0.0084*	<0.0084	*<0.0084*	*<0.0084*	*<0.0084*	0.0517	0.292	*<0.0084*	**0.893**	**8.46**	**0.301**	0.0301 J
MW-21D	8/2/2006	--	<0.04	0.0212 J	<0.04	<0.04	<0.04	*<0.04*	<0.04	**0.194**	**0.294**	*<0.04*	*<0.05*	0.469	<0.05	0.0461 J	**0.047**	**0.0253**	**0.0243**	0.0082 J	**0.022**	**0.0363**	*<0.01*	0.224	0.301	**0.0115**	**0.395**	**2.8**	**0.465**	0.146
MW-21D	7/26/2007	--	<0.049	0.0232 J	<0.049	<0.049	<0.049	*<0.049*	<0.049	**0.251**	**0.359**	*<0.049*	*<0.097*	0.463	*<0.097*	<0.097	**0.0205**	**0.0099 J**	**0.0101 J**	<0.019	*<0.019*	**0.0158 J**	*<0.019*	0.111	0.281	**0.0052 J**	**0.539**	**5.82**	**0.361**	0.0764 J
MW-21D	11/18/2008	2.1	<0.095	<0.095	<0.095	<0.095	<0.095	*<0.095*	<0.095	**0.273**	**0.313**	*<0.095*	*<0.190*	0.452	*<0.190*	<0.190	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.190	0.226	*<0.038*	**0.556**	**5.33**	**0.249**	<0.190
MW-21D	12/17/2009	167.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.186**	**0.263**	<0.020	*<0.080*	0.441	<0.080	<0.080	*<0.016*	*<0.016*	*<0.016*	<0.016	*<0.016*	*<0.016*	*<0.016*	<0.080	0.225	*<0.016*	**0.275**	**3.46**	**0.235**	<0.080
MW-21D	12/21/2010	305.0	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	**0.177**	**0.192**	<0.019	*<0.096*	0.416	*<0.096*	<0.096	*<0.019*	*<0.019*	*<0.019*	*<0.019*	*<0.019*	*<0.019*	*<0.019*	<0.096	0.22	*<0.019*	**0.397**	**3.84**	**0.185**	<0.096

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
		1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-22D	11/13/2003		--	<0.020	0.089	0.0487	0.0908	0.0146	*<0.020*	<0.020	**0.0906**	**0.159**	**0.0101**	**0.0771**	0.241	0.026	0.0357	**0.0326**	**0.0161**	**0.0191**	0.0049	**0.0129**	**0.0253**	*<0.004*	0.171	0.201	**0.0062**	**0.268**	**1.85**	**0.399**	0.112
MW-22D	2/18/2004		--	<0.011	0.0478	0.029	0.055	0.0091 J	*<0.011*	<0.011	0.0355	**0.0367**	*<0.011*	**0.0284**	0.0658	0.0079 J	0.0061 J	**0.0022**	*<0.0021*	*<0.0021*	<0.0021	*<0.0021*	**0.0017 J**	*<0.0021*	0.0181	0.0422	*<0.0021*	**0.0938**	1.02	**0.061**	0.011
MW-22D	9/10/2004		--	<.049	0.0478	0.0259	0.0476	<0.049	*<0.049*	<0.049	**0.0792**	**0.147**	*<0.049*	**0.0323**	0.174	0.0217	0.0357	**0.0368**	**0.0199**	**0.0205**	0.0066	**0.0142**	**0.0257**	**0.0023**	0.161	0.158	**0.0088**	**0.254**	**1.57**	**0.298**	0.105
MW-22D	8/2/2006		--	<0.049	**0.918**	0.433	0.805	0.116	*<0.049*	<0.049	**0.310**	**0.275**	*<0.049*	**0.324**	0.374	0.0414 j	0.0344 J	**0.0152**	**0.0068 J**	**0.0069 J**	<0.0098	**0.0059 J**	**0.0105**	*<0.0098*	0.0902	0.206	**0.003 J**	**0.567**	**5.34**	**0.304**	0.0563
MW-22D	7/26/2007		--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0278	**0.0622**	0.0024 J	*< 0.02*	0.0767	< 0.02	0.0135 J	**0.0112**	**0.0065**	**0.0074**	0.0027 J	**0.0055**	**0.0091**	*<0.004*	0.052	0.0645	**0.0038 J**	**0.0686**	0.549	**0.129**	0.0389
MW-22D	11/18/2008		3.7	<0.019	0.152 J	0.0062 J	0.0092 J	<0.019	<0.019	<0.019	0.0288	**0.0656**	*<0.019*	*<0.024*	0.0891	<0.024	0.0179 J	**0.0213**	**0.0111**	**0.0156**	0.0034 J	**0.005**	**0.0159**	*<0.0048*	0.0934	0.0737	**0.0042 J**	**0.0774**	0.787	**0.184**	0.0687
MW-22D	12/17/2009		>1000	<0.019	0.0284	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0489**	**0.264**	<0.019	*<0.024*	0.335	0.0283	0.0626	**0.0622**	**0.0312**	**0.0414**	0.0112	**0.0152**	**0.0402**	*<0.0048*	0.242	0.292	**0.0139**	**0.136**	1.13	**0.609**	0.249
MW-22D	12/21/2010		>1000	<0.048	0.0149	0.0071	0.0084	<0.048	<0.048	<0.048	0.028	**0.0608**	<0.048	*<0.19*	1.14	<0.19	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.802	*<0.038*	**0.653**	**5.49**	**1.16**	<0.19
MW-22D	7/15/2015		34.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0056	0.0087	<0.0048	<0.00095	0.0107	<0.00095	0.0016	**0.0018**	**0.00089**	**0.0013**	0.00035	**0.00044**	**0.0014**	<0.00019	0.0089	0.0076	**0.00042**	0.0065	0.107	0.0153	0.0056
MW-22D	3/15/2018		3.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0227	0.0159	<0.0048	<0.019	0.0215	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	<0.019	*<0.0038*	<0.019	0.326	<0.019	<0.019
MW-23D	11/13/2003		--	<0.021	**1.03**	0.331	0.407	0.105	*<0.021*	<0.021	**0.3**	**0.186**	**0.0366**	**0.568**	0.396	*<0.100*	<0.100	*<0.021*	*<0.021*	*<0.021*	<0.021	*<0.021*	*<0.021*	*<0.021*	0.0274	0.191	*<0.021*	**0.645**	**9.27**	**0.154**	<0.100
MW-23D	2/18/2004		--	<0.050	**1.13**	0.422	0.527	0.134	*<0.050*	<0.050	**0.321**	**0.23**	**0.0956**	**0.491**	0.416	0.0512	0.034 J	**0.0162**	**0.0077 J**	**0.0079 J**	<0.008	**0.007 J**	**0.0119**	*<0.008*	0.0981	0.237	*<0.008*	**0.71**	**7.78**	**0.31**	0.062
MW-23D	9/10/2004		--	<0.048	**1.17**	0.436	0.563	0.15	*<0.048*	<0.048	**0.31**	**0.231**	**0.183**	**0.495**	0.375	0.0449	0.0335	**0.0208**	**0.0111**	**0.0125**	0.0076	**0.0074**	**0.0143**	*<0.0076*	0.106	0.224	**0.0084**	**0.663**	**5.53**	**0.382**	0.0637
MW-23D	8/2/2006		--	0.022	**0.762**	0.279	0.316	0.129	*<0.021*	<0.021	**0.169**	**0.113**	**0.0184 J**	**0.105**	0.231	<0.053	<0.053	**0.0034 J**	*<0.011*	*<0.011*	<0.011	*<0.011*	*<0.011*	*<0.011*	0.0225 J	0.109	*<0.011*	**0.132**	**1.28**	**0.0939**	0.0147 J
MW-23D	7/26/2007		--	0.0194 J	0.622	0.19	0.175	0.0703	*<0.025*	<0.025	**0.238**	**0.132**	**0.0279**	**0.0659**	0.224	0.0207 J	<0.04	**0.0037 J**	*< 0.0079*	*< 0.0079*	< 0.0079	*< 0.0079*	*< 0.0079*	*< 0.0079*	0.0251 J	0.114	*< 0.0079*	**0.178**	**1.52**	**0.0973**	0.0176 J
MW-23D	11/18/2008		12.2	<0.020	0.0973	0.027	0.0136 J	0.007 J	*<0.020*	<0.020	<0.020	**0.0211**	**<0.020**	**0.0748**	0.0544	0.0031 J	<0.0038	**0.00031 J**	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	0.0032 J	0.026	*<0.00076*	<0.0038	0.0015 J	0.0175	0.0021 J
MW-23D	12/16/2009		3.6	0.0061	0.0666	0.013	0.0149	<0.0048	<0.0048	<0.0048	**0.0782**	**0.073**	*<0.0048*	**0.0533**	0.111	<0.019	<0.0038	*<0.0038*	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	0.0533	<0.0038	**0.139**	**1.26**	**0.0429**	<0.0038
MW-23D	12/17/2010		35.3	<0.0096	0.0256	<0.0096	<0.0096	<0.0096	<0.0096	<0.0096	0.016	<0.0096	<0.0096	**0.0096**	0.0382	<0.0038	0.0038	*0.0118*	**0.0077**	**0.0104**	0.0028	**0.004**	**0.0097**	<0.00077	0.0319	0.0077	**0.0037**	<0.0038	0.0082	**0.022**	0.0305
MW-23D	12/16/2011		76.5	<0.019	0.11	0.0563	<0.019	<0.019	<0.019	<0.019	0.0562	0.0464	<0.019	**0.0299**	0.0791	<0.0095	<0.0095	*<0.0019*	*<0.0019*	*<0.0019*	<0.0019	*<0.0019*	*<0.0019*	*<0.0019*	<0.0095	0.0375	*<0.0019*	**0.141**	**1.52**	**0.0333**	<0.0095
MW-23D	7/16/2015		--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.009	<0.0050	<0.0010	0.0322	0.0012	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	0.0015	0.0124	*<0.00020*	<0.0010	<0.0010	<0.0010	<0.0010
MW-23D	3/15/2018		32.0	<0.0049	0.0419	0.0055	<0.0049	<0.0049	<0.0049	<0.0049	0.142	<0.0049	<0.0049	<0.098	0.122	<0.098	<0.098	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	<0.098	<0.098	*<0.020*	<0.098	**2.68**	<0.098	<0.098
MW-24A	11/17/2008		--	Not Sampled do the presence of Free-product																											
MW-24A	3/3/2009		--	<0.057	**1.1**	0.418	0.678	0.104	*<0.057*	<0.057	**0.395**	**0.458**	*<0.057*	**0.167**	0.705	**0.0896 J**	0.0877 J	**0.0761**	**0.0393**	**0.0521**	0.0101 J	**0.02 J**	**0.0558**	*< 0.023*	**0.357**	0.494	**0.0150 J**	**1.31**	**10.6**	**0.863**	0.241
MW-24A	12/17/2009		16.4	<0.12	**1.3**	0.478	0.757	<0.12	*<0.12*	<0.12	**0.408**	**0.43**	*<0.12*	*<0.19*	0.654	*<0.19*	<0.19	**0.0703**	*<0.038*	**0.0461**	<0.038	*<0.038*	**0.0486**	*<0.038*	**0.293**	0.459	*<0.038*	**0.977**	**10.0**	**0.8**	0.236
MW-24A	12/21/2010		12.6	<0.098	**1.2**	0.439	0.654	<0.098	*<0.098*	<0.098	**0.442**	**0.565**	*<0.098*	*<0.49*	0.772	*<0.49*	<0.49	**0.141**	*<0.098*	*<0.098*	<0.098	*<0.098*	**0.105**	*<0.098*	**0.622**	0.611	*<0.098*	**1.22**	**11.5**	**1.4**	<0.49
MW-24A	3/11/2011		48.8	<0.095	**1.4**	0.534	0.725	<0.095	*<0.095*	<0.095	**0.398**	**0.439**	*<0.095*	**0.172**	0.584	0.0651	0.105	**0.0807**	**0.0408**	**0.056**	0.0129	**0.0208**	**0.0617**	*<0.0095*	**0.364**	0.413	**0.0173**	**1.02**	**11.5**	**0.858**	0.23
MW-24A	6/24/2011		--	<0.097	**1.03**	0.283	0.391	<0.097	*<0.097*	<0.097	**0.444**	**0.518**	*<0.097*	*<0.97*	<0.97	*<0.97*	<0.97	*<0.19*	*<0.19*	*<0.19*	<0.19	*<0.19*	*<0.19*	*<0.19*	*<0.97*	<0.97	*<0.19*	**1.31**	**15.5**	**1.32**	*<0.97*
MW-24A	9/28/2011		26.7	*<0.19*	**1.23**	0.421	0.596	<0.19	*<0.19*	*<0.19*	**0.377**	**0.536**	*<0.19*	*<0.49*	0.635	*<0.49*	<0.49	**0.117**	*<0.097*	*<0.097*	<0.097	*<0.097*	*<0.097*	*<0.097*	**0.543**	0.502	*<0.097*	**0.998**	**9.7**	**1.17**	<0.49
MW-25A	11/18/2008		70.9	<0.0049	0.0086	0.0066	0.0028 J	0.022 J	<0.0049	<0.0049	**0.0468**	**0.051**	<0.0049	**0.0034 J**	0.142	<0.0098	<0.0098	*<0.002*	*<0.002*	*<0.002*	<0.002	*<0.002*	*<0.002*	*<0.002*	0.0113	0.0682	*<0.002*	0.0203	0.265	**0.0582**	0.0069 J
MW-25A	12/15/2009		97.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0134	**0.0296**	<0.0049	*<0.0049*	0.151	<0.0049	<0.0049	*<0.0098*	*<0.0098*	*<0.0098*	<0.0098	*<0.0098*	*<0.0098*	*<0.0098*	0.0075	0.0521	*<0.00098*	<0.0049	0.016	**0.0225**	0.0053
MW-25A	12/17/2010		>1000	<0.0048	0.102	0.0633	<0.0048	<0.0048	<0.0048	<0.0048	0.0104	**0.0275**	<0.0048	<0.00096	0.0911	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0289	<0.00019	<0.00096	0.345	0.0175	<0.00096
MW-25A	3/7/2011		89.1	<0.024	0.22	0.122	0.0424	<0.024	<0.024	<0.024	**0.049**	**0.0784**	*<0.024*	*<0.019*	0.203	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0712	*<0.0038*	**0.0472**	**1.56**	**0.0516**	<0.019
MW-25A	6/23/2011		--	<0.049	0.242	0.118	<0.049	<0.049	<0.049	<0.049	**0.0575**	**0.0705**	*<0.049*	*<0.039*	0.18	<0.039	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	0.0662	*<0.0078*	**0.0395**	1.14	**0.0496**	<0.039
MW-25A	9/28/2011		>1000	<0.049	0.29	0.186	<0.049	<0.049	<0.049	<0.049	**0.0632**	**0.0739**	*<0.096*	*<0.049*	0.209	<0.049	<0.049	*<0.0098*	*<0.0098*	*<0.0098*	<0.0098	*<0.0098*	*<0.0098*	*<0.0098*	<0.049	0.0695	*<0.0098*	**0.0924**	**1.7**	**0.0516**	<0.049
MW-25A	12/16/2011		55.8	<0.019	0.11	0.0563	<0.019	<0.019	<0.019	<0.019	**0.0585**	**0.101**	*<0.019*	*<0.0096*	0.262	<0.0096	<0.0096	*<0.0019*	*<0.0019*	*<0.0019*	<0.0019	*<0.0019*	*<0.0019*	*<0.0019*	0.0137	0.110	*<0.0019*	**0.1**	**1.42**	**0.101**	<0.0096
MW-25A	4/4/2012		68.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.008	**0.0193**	<0.0048	<0.00095	0.0414	<0.00095	0.0017	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0072	0.026	<0.00019	0.002	0.0755	0.0179	0.0035
MW-25A	7/10/2012		31.6	<0.038	0.208	<0.038	<0.038	<0.038	<0.038	<0.038	**0.302**	**0.0509**	<0.0048	*<0.0038*	0.137	0.0044	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	0.0128	0.057	*<0.00076*	<0.0038	0.111	**0.0302**	0.0061
MW-25A	10/3/2012		18.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0056	**0.0123**	<0.0048	<0.00095	0.0218	<0.00095	0.0016	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0088	0.017	<0.00019	<0.00095	0.0181	0.0048	0.0047
MW-25A	7/14/2015		105.0	<0.0048	0.0107	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0151	**0.0227**	<0.0048	<0.00095	0.603	<0.00095	0.0014	*0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0073	0.270	<0.00019	<0.00095	0.436	0.0033	0.0036
MW-25A	3/13/2018		13.8	0.0052	0.0255	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0327	**0.0371**	0.0048	*<0.019*	0.0736	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.034	<0.0038	0.0233	0.689	<0.019	<0.019
MW-26A	11/18/2008		--	<0.019	0.0058 J	<0.019	<0.019	<0.019	*<0.019*	<0.019	0.0081 J	**0.0277**	*<0.019*	**0.0518**	0.048	<0.015	<0.015	**0.0037**	**0.0015 J**	**0.0022 J**	<0.003	*<0.003*	**0.0023 J**	*<0.003*	0.0203	0.0361	*<0.003*	**0.0445**	0.321	**0.0586**	0.0185
MW-26A	12/16/2009		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0237**	0.0092	<0.00095	<0.00095	**0.00029**	**0.00029**	**0.00042**	<0.00019	<0.00019	**0.00024**	<0.00019	0.0014	0.0046	<0.00019	0.003	0.019	**0.0022**	<0.00095
MW-26A	12/16/2010		6.2	<0.0050	0.0089	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0455**	0.0084	<0.0020	<0.0020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.0025	0.0025	<0.00040	<0.0020	0.002	<0.0020	<0.0020
MW-26A	3/7/2011		10.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0449**	0.0035	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0013	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-26A	6/24/2011		--	<0.019	<0.019	<0.019	<0.019	<0.019	*<0.019*	<0.019	<0.019	*<0.019*	*<0.019*	**0.062**	0.0039	<0.0038	<0.0038	*<0.00077*	*<0.00077*	*<0.00077*	<0.00077	*<0.00077*	*<0.00077*	*<0.00077*	<0.0038	<0.0038	<0.00077	<0.0038	<0.0038	<0.00038	<0.00038
MW-26A	9/28/2011		26.6	<0.024	0.0243	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	*<0.024*	*<0.024*	**0.112**	0.0112	<0.0048	<0.0048	*<0.00096*	*<0.00096*	*<0.00096*	<0.00096	*<0.00096*	*<0.00096*	*<0.00096*	<0.0048	0.0057	<0.00096	0.0098	0.12	0.0058	<0.0048
MW-26A	12/14/2011		50.0	<0.019	0.0292	<0.019	<0.019	<0.019	<0.019	<0.019	0.0215	**0.024**	*<0.019*	**0.0972**	0.05	<0.019	<0.019	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	0.02	0.0351	*<0.038*	0.0227	0.338	**0.0435**	<0.019
MW-26A	4/4/2012		151.0	<0.0050	0.0421	0.0069	0.0084	<0.0050	<0.0050	<0.0050	**0.0508**	**0.0272**	<0.0050	**0.0907**	0.0393	0.0085	0.004	*<0.00080*	*<0.00080*	*<0.00080*	<0.00080	*<0.00080*	*<0.00080*	*<0.00080*	0.0073	0.0251	*<0.00080*	**0.0591**	1.14	**0.0274**	<0.0040
MW-26A	7/13/2012		18.2	<0.019	0.0339	<0.019	<0.019	<0.019	<0.019	<0.019	**0.076**	**0.0495**	*<0.019*	**0.0723**	0.0626	<0.019	<0.019	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.019	0.0408	*<0.038*	**0.122**	**3.38**	**0.0425**	<0.019
MW-26A	10/2/2012		175.0	<0.019	0.0515	<0.019	<0.019	<0.019	<0.019	<0.019	**0.164**	**0.133**	*<0.019*	**0.207**	<0.19	<0.19	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.366**	**3.99**	*<0.19*	<0.19
MW-27A	11/17/2008		--	Not Sampled do the presence of Free-product																											
MW-27A	3/3/2009		--	<0.056	0.437	0.136	0.198	0.0233 J	*<0.056*	<0.056	**0.389**	**0.839**	*<0.056*	**0.0745 J**	1.04	**0.107 J**	0.221	**0.213**	**0.114**	**0.159**	0.0316	**0.052**	**0.161**	0.0099 J	**0.943**	0.864	**0.0458**	**1.59**	**10.1**	**1.91**	0.646
MW-27A	12/17/2009		14.9	<0.096	0.319	<0.096	<0.096	<0.096	<0.096	<0.096	**0.723**	**2.32**	<0.096	*<0.038*	4.11	<0.038	0.057	**1.11**	**0.545**	**0.746**	0.182	**0.26**	**0.737**	<0.077	**4.03**	**3.85**	**0.237**	**4.48**	**23.2**	**9.13**	**4.02**
MW-27A	4/15/2010		101.0	<0.038	0.239	0.0686	0.0612	<0.038	<0.038	<0.038	**0.151**	**0.546**	<0.038	*<0.38*	0.756	*<0.38*	<0.38	**0.103**	*<0.076*	*<0.076*	<0.076	*<0.076*	**0.0783**	*<0.076*	**0.523**	0.576	*<0.076*	**1.21**	**12.3**	**1.22**	<0.38
MW-27A	6/6/2013		--	Convert to RW-17		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-28A	2/12/2009	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0031	<0.005	0.0036	<0.0010	0.0051	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0012	<0.00020	0.0026	0.0196	0.00082	<0.0010
MW-28A	8/5/2009	5.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.00099	<0.00096	<0.00096	0.000055 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	0.00096	0.0057	<0.00096	<0.00096
MW-28A	12/16/2009	--	Frozen: No Sample Collected																											
MW-28A	6/16/2010	9.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-28A	9/21/2010	0.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0046	<0.00095	<0.00095
MW-28A	3/8/2011	43.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0035	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0034	<0.00095	<0.00095
MW-28A	6/22/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-28A	9/27/2011	10.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0019	<0.00096	<0.00096
MW-28A	12/15/2011	12.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00019	<0.00097	<0.00097
MW-28A	4/5/2012	0.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0019	<0.00096	<0.00096
MW-28A	7/11/2012	52.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28A	10/2/2012	2.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28A	7/16/2015	19.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-28A	3/14/2018	10.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0014	<0.0014	<0.0014	<0.0014	*<0.00029*	*<0.00029*	*<0.00029*	*<0.00029*	*<0.00029*	*<0.00029*	*<0.00029*	<0.0014	<0.0014	*<0.00029*	<0.0014	<0.0014	<0.0014	<0.0014
MW-28B	2/12/2009	--	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	0.0409	0.0066	*<0.020*	*<0.0039*	0.059	<0.0039	<0.0039	*<0.00078*	*<0.00078*	*<0.00078*	<0.00078	*<0.00078*	*<0.00078*	*<0.00078*	<0.0039	0.0156	*<0.00078*	**0.0811**	0.4300	0.0059	<0.0039
MW-28B	8/5/2009	1.1	<0.0048	0.009	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0753**	**0.0151**	<0.0048	*<0.019*	0.102	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0315	*<0.0038*	**0.137**	0.9360	0.0122 J	<0.019
MW-28B	12/16/2009	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0561**	0.0095	<0.0049	*<0.0039*	0.102	<0.0039	<0.0039	*<0.00078*	*<0.00078*	*<0.00078*	*<0.00078*	<0.00078	*<0.00078*	*<0.00078*	*<0.00078*	<0.0039	0.0303	*<0.00078*	**0.113**	0.1710	0.0124	<0.0039
MW-28B	6/16/2010	14.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0326	<0.0048	<0.0048	*<0.00109*	0.0512	<0.00109	<0.00109	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	<0.00038	*<0.00038*	*<0.00038*	*<0.00038*	<0.00109	0.0144	*<0.00038*	0.0254	0.0099	0.0076	<0.00109
MW-28B	9/21/2010	0.1	<0.0048	0.0135	<0.0048	<0.0048	<0.0048	<0.0048	**0.0699**	**0.0193**	*<0.0048*	*<0.0076*	0.105	<0.0076	<0.0076	*<0.0076*	*<0.0076*	*<0.0010*	<0.0010	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	<0.0076	0.0340	*<0.0010*	**0.151**	**1.34**	0.0142	<0.0076
MW-28B	12/15/2010	36.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0715**	**0.0162**	<0.0049	*<0.019*	0.108	<0.019	<0.019	*<0.0039*	*<0.0039*	*<0.0039*	<0.0039	*<0.0039*	*<0.0039*	*<0.0039*	<0.019	0.0332	*<0.0039*	**0.139**	0.49	<0.019	<0.019
MW-28B	3/8/2011	53.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0434**	<0.0048	<0.0048	*<0.0038*	0.0803	<0.0038	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	0.0213	*<0.00076*	**0.0591**	0.01	0.0094	<0.0038
MW-28B	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0313	<0.0050	<0.0050	*<0.0020*	0.0516	<0.0020	<0.0020	*<0.00040*	*<0.00040*	*<0.00040*	<0.00040	*<0.00040*	*<0.00040*	*<0.00040*	<0.0020	0.0144	*<0.00040*	0.0147	0.01	0.0069	<0.0020
MW-28B	9/27/2011	4.1	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0574**	<0.019	<0.019	*<0.019*	0.0825	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0269	*<0.0038*	**0.102**	0.40	<0.019	<0.019
MW-28B	12/13/2011	15.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0412	<0.0048	<0.0048	*<0.0038*	0.0704	<0.0038	<0.0038	*<0.00077*	*<0.00077*	*<0.00077*	*<0.00077*	<0.00077	*<0.00077*	*<0.00077*	*<0.00077*	<0.0038	0.0218	*<0.00077*	**0.0525**	0.005	0.0118	<0.0038
MW-28B	4/5/2012	16.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0421	0.0077	<0.0049	<0.00097	0.0593	<0.00097	<0.00097	*<0.00097*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	0.0156	<0.00019	**0.0518**	0.0294	0.0069	<0.00097
MW-28B	7/11/2012	4.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0457**	0.0116	<0.0048	*<0.019*	0.0744	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0234	*<0.0038*	**0.0908**	0.43	<0.019	<0.019
MW-28B	10/2/2012	7.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0516**	0.0113	<0.0048	*<0.00095*	0.0648	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0178	<0.00019	**0.079**	0.08	0.0076	<0.00095
MW-28B	7/16/2015	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0251**	<0.0048	<0.0048	<0.00096	0.05	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0131	<0.00019	<0.00096	0.0012	0.0063	<0.00096
MW-28B	3/14/2018	1.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.044**	0.0133	<0.0048	<0.0050	0.121	<0.0050	<0.0050	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	<0.0050	0.0323	<0.0010	0.0431	0.132	0.0123	<0.0050
MW-28C	2/12/2009	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-28C	8/5/2009	4.7	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-28C	12/16/2009	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	0.0027	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	0.0017	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-28C	6/16/2010	8.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-28C	9/21/2010	0.2	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0015	<0.00097	<0.00097
MW-28C	12/15/2010	21.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-28C	3/8/2011	14.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28C	6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0022	<0.00097	<0.00097
MW-28C	9/27/2011	7.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.001	<0.00095	<0.00095
MW-28C	12/13/2011	9.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28C	4/5/2012	120.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-28C	7/11/2012	2.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28C	10/2/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-28C	7/16/2015	6.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-28C	3/14/2018	14.0	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.002	<0.00095	<0.00095
MW-29A	2/12/2009	107.8	<0.0049	0.0046	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0182	**0.0306**	**0.0085**	<0.00098	0.06	0.0022	0.0085	**0.0018**	**0.00088**	**0.0015**	0.00042	**0.00048**	**0.002**	0.00013	0.0174	0.0393	**0.00048**	0.0011	0.0016	**0.0547**	0.0107
MW-29A	8/5/2009	5.7	<0.0049	0.0043 J	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0096	0.0063	<0.0049	<0.00098	0.0199	0.00054 J	0.0022	**0.00028**	0.000068 J	0.00010 J	<0.00020	<0.00020	**0.00024**	<0.00020	0.0049	0.0112	<0.00020	<0.00098	<0.00098	0.0081	0.003
MW-29A	12/15/2009	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0085	0.0089	<0.0050	*<0.0020*	0.0193	<0.0020	0.0031	**0.001**	*<0.0040*	**0.00051**	<0.0040	*<0.0040*	**0.00093**	*<0.0040*	0.0078	0.013	*<0.0040*	0.008	0.0514	0.0131	0.0069
MW-29A	6/17/2010	104.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	<0.0050	<0.0050	<0.0010	0.0078	<0.0010	0.0012	**0.0002**	<0.00020	<0.00020	<0.00020	<0.00020	**0.00023**	<0.00020	0.003	0.0053	<0.00020	<0.0010	0.0029	0.0032	0.0025
MW-29A	9/21/2010	0.2	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0055	<0.0049	<0.0049	<0.00097	0.0074	<0.00097	0.0013	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0026	0.0052	<0.00019	0.0041	0.027	0.0048	0.0017
MW-29A	3/11/2011	39.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0052	<0.0048	<0.0048	<0.00095	0.0072	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0011	0.0045	<0.00019	0.0035	0.0273	0.0035	<0.00095
MW-29A	6/24/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-29A	9/30/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0072	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0012	0.005	<0.00019	0.0033	0.0154	0.0032	<0.00095
MW-29A	12/14/2011	22.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0065	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00095	0.0045	<0.00019	0.0027	0.011	0.0026	<0.00095
MW-29A	7/13/2012	25.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0016	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.001	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-29A	10/4/2012	53.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0059	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00096	0.0044	<0.00019	<0.00095	0.0051	0.0028	<0.00095
MW-29A	7/17/2015	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00095	0.0012	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0019	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-29A	3/26/2018	--	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.014	<0.00094	0.0039	<0.00094	0.001	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.001	0.004	<0.00019	0.002	0.0111	0.0041	<0.00094
MW-29B	3/3/2009	--	<0.11	**1.63**	0.153	0.0817 J	0.0815 J	*<0.11*	*<0.11*	**0.415**	**0.51**	*<0.11*	**0.201 J**	0.823	*<0.22*	0.123 J	**0.075**	**0.0383 J**	**0.0541**	<0.044	**0.0187 J**	**0.0557**	*<0.044*	**0.386**	0.581	**0.0125 J**	**1.71**	**14**	**1.01**	0.248
MW-29B	8/5/2009	31.4	<0.099	0.494	0.0603 J	0.0462 J	0.0355 J	*<0.099*	<0.099	**0.411**	**0.432**	*<0.099*	**0.505**	0.653	*<0.40*	<0.40	**0.0646 J**	**0.0313 J**	**0.0430 J**	<0.079	*<0.079*	**0.0480 J**	*<0.079*	**0.312 J**	0.453	*<0.079*	**1.02**	**11.6**	**0.763**	0.206
MW-29B	12/17/2009	27.8	<0.048	0.339	0.0625	<0.048	<0.048	*<0.048*	<0.048	**0.343**	**0.332**	*<0.048*	**0.623**	0.503	*<0.019*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.038	0.312	*<0.038*	**0.806**	**8.6**	**0.444**	<0.019
MW-29B	6/17/2010	--	<0.098	0.196	<0.098	<0.098	<0.098	*<0.098*	<0.098	**0.321**	**0.413**	*<0.098*	**0.376**	0.662	*<0.20*	<0.20	**0.0535**	*<0.039*	*<0.039*	<0.039	**0.0411**	*<0.039*	**0.271**	0.441	*<0.039*	**1.11**	**11.2**	**0.728**	0.2
MW-29B	9/21/2010	0.2	<0.050	0.129	<0.050	<0.050	<0.050	*<0.050*	<0.050	**0.322**	**0.429**	*<0.050*	**0.198**	0.602	*<0.10*	0.112	**0.0934**	**0.0461**	**0.0663**	<0.020	**0.0200**	**0.0675**	*<0.020*	**0.439**	0.464	**0.0204**	**0.909**	**9.47**	**0.965**	0.281
MW-29B	12/21/2010	30.8	<0.040	0.183	<0.040	<0.040	<0.040	*<0.040*	<0.040	**0.263**	**0.31**	*<0.040*	**0.21**	0.337	*<0.20*	<0.20	*<0.040*	*<0.040*	*<0.040*	<0.040	*<0.040*	*<0.040*	*<0.040*	<0.20	0.224	*<0.040*	**0.572**	**5.21**	**0.382**	<0.20
MW-29B	3/11/2011	64.7	<0.096	0.125	<0.096	<0.096	<0.096	*<0.096*	<0.096	**0.286**	**0.316**	*<0.096*	**0.143**	0.311	<0.038	0.0458	**0.0142**	*<0.0077*	0.009	<0.0077	*<0.0077*	0.0102	*<0.0077*	0.0779	0.194	<0.0077	**0.522**	**7.58**	**0.273**	<0.038
MW-29B	6/24/2011	--	*<0.20*	0.325	<0.20	<0.20	<0.20	*<0.20*	*<0.20*	**0.315**	**0.419**	*<0.98*	*<0.98*	<0.98	*<0.98*	<0.98	*<0.20*	*<0.20*	*<0.20*	*<0.20*	*<0.20*	*<0.20*	*<0.20*	*<0.98*	<0.98	*<0.20*	*<0.98*	**12.50**	*<0.98*	*<0.98*
MW-29B	9/28/2011	82.3	<0.096	0.29	<0.096	<0.096	<0.096	<0.096	<0.096	**0.362**	**0.534**	*<0.096*	**1.01**	0.584	*<0.19*	<0.19	**0.0885**	**0.0381**	**0.0561**	<0.038	*<0.038*	**0.0671**	*<0.038*	**0.418**	0.438	*<0.038*	**0.0849**	**7.36**	**0.937**	0.274
MW-29B	7/15/2015	316.0	0.0275	0.197	0.0372	0.0244	0.0226	0.139	<0.022	**0.292**	**0.344**	*<0.022*	**0.202**	0.476	*<0.11*	<0.11	**0.0427**	<0.022	**0.0262**	<0.022	*<0.022*	**0.0348**	*<0.022*	0.22	0.323	*<0.022*	**0.734**	**8.88**	**0.576**	0.141

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Location ID	Sample Date	Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
		Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
		1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-30A	11/4/2009		70.4	0.0565 J	**0.824**	<0.10	0.376	0.0242 J	<0.10	*<0.10*	**0.222**	**0.127**	*<0.10*	*<0.1*	0.267	*<0.10*	<0.10	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.10	0.0987 J	<0.020	**0.492**	**9.28**	**0.0465 J**	<0.10
MW-30A	12/16/2009		263.0	<0.10	0.628	0.119	0.279	<0.10	<0.10	*<0.10*	**0.167**	*<0.10*	*<0.10*	*<0.10*	0.204	*<0.10*	<0.10	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.10	<0.10	<0.020	**0.334**	**5.60**	*<0.10*	<0.10
MW-30A	6/16/2010		74.8	<0.020	0.407	0.145	0.163	<0.020	<0.020	<0.020	**0.0726**	**0.0298**	*<0.020*	*<0.039*	0.0751	<0.039	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	<0.039	<0.039	**0.0756**	1.12	*<0.039*	<0.039
MW-30A	9/23/2010		104.0	<0.049	**0.742**	0.191	0.188	<0.049	<0.049	<0.049	**0.211**	**0.0975**	*<0.049*	*<0.49*	<0.49	*<0.49*	<0.098	*<0.098*	*<0.098*	*<0.098*	<0.098	*<0.098*	*<0.098*	*<0.098*	*<0.49*	<0.49	*<0.098*	*<0.49*	**8.14**	*<0.49*	<0.49
MW-30A	12/16/2010		>1000	<0.19	0.715	<0.19	<0.19	<0.19	<0.19	*<0.19*	**0.238**	*<0.19*	*<0.19*	*<0.38*	0.395	*<0.38*	<0.38	*<0.077*	*<0.077*	*<0.077*	<0.077	*<0.077*	*<0.077*	*<0.077*	*<0.38*	<0.38	*<0.077*	**0.61**	**8.61**	*<0.38*	<0.38
MW-30A	3/8/2011		24.0	<0.095	0.522	0.118	<0.095	<0.095	<0.095	<0.095	**0.175**	*<0.095*	*<0.095*	*<0.095*	0.217	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	**0.369**	**3.56**	*<0.095*	<0.095
MW-30A	6/24/2011		--	<0.048	0.527	0.122	0.0733	<0.048	<0.048	<0.048	**0.164**	**0.0898**	*<0.048*	*<0.096*	0.194	*<0.096*	<0.096	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	*<0.019*	<0.096	<0.096	*<0.019*	**0.291**	**7.5**	*<0.096*	<0.096
MW-30A	9/30/2011		8.7	<0.019	0.492	0.106	0.083	<0.019	<0.019	<0.019	**0.117**	**0.0523**	*<0.019*	*<0.096*	0.166	*<0.096*	<0.096	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.096	<0.096	*<0.019*	**0.281**	**5.41**	*<0.096*	<0.096
MW-30A	12/16/2011		84.3	<0.048	0.582	0.123	0.0675	<0.048	<0.048	<0.048	**0.191**	**0.115**	*<0.048*	*<0.19*	0.254	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.446**	**8.54**	*<0.19*	<0.19
MW-30A	4/4/2012		25.0	<0.096	0.566	0.106	<0.096	<0.096	<0.096	<0.096	**0.179**	*<0.096*	*<0.096*	*<0.19*	<0.19	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.264**	**4.86**	*<0.19*	<0.19
MW-30A	7/12/2012		15.2	<0.048	0.475	0.102	0.0745	<0.048	<0.048	<0.048	**0.188**	**0.102**	*<0.048*	*<0.048*	0.224	*<0.048*	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	0.0824	*<0.0095*	**0.398**	**7.33**	*<0.048*	<0.048
MW-30A	10/3/2012		256.0	<0.048	0.493	0.0978	<0.048	<0.048	<0.048	<0.048	**0.178**	**0.0937**	*<0.048*	*<0.24*	0.24	*<0.24*	<0.24	*<0.048*	*<0.048*	*<0.048*	<0.048	*<0.048*	*<0.048*	*<0.048*	<0.24	<0.24	*<0.048*	**0.326**	**5.97**	*<0.24*	<0.24
MW-30A	7/16/2015		0.0	0.0308	0.15	0.0201	<0.020	<0.020	<0.020	<0.020	**0.061**	**0.0329**	<0.020	*<0.040*	0.0809	<0.040	<0.040	*<0.0080*	*<0.0080*	*<0.0080*	<0.0080	*<0.0080*	*<0.0080*	*<0.0080*	<0.040	<0.040	*<0.0080*	**0.091**	**3.56**	*<0.040*	<0.040
MW-30A	3/12/2018		1.2	<0.019	0.209	0.0311	<0.019	<0.019	<0.019	<0.019	**0.221**	0.13	*<0.019*	*<0.048*	0.281	<0.048	0.281	*<0.048*	*<0.048*	*0.0104*	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	*0.0505*	**0.136**	0.0095	**0.161**	<0.048
MW-30B	11/4/2009		13.0	<0.0053	<0.0053	<0.0053	<0.0053	0.0034 J	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	0.0013	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	0.00055 J	<0.00020	0.0014	0.0171	0.00038 J	<0.0010
MW-30B	12/16/2009		0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0040*	<0.0040	<0.0040	<0.0040	*<0.00080*	*<0.00080*	*<0.00080*	<0.00080	*<0.00080*	*<0.00080*	*<0.00080*	*<0.0040*	*<0.0040*	*<0.00080*	<0.0040	<0.0040	<0.0040	<0.0040
MW-30B	6/16/2010		5.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.00099	<0.00098	<0.00098	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	<0.00020	<0.00098	<0.00098	*<0.020*	0.0012	0.0128	<0.00098	<0.00098
MW-30B	9/23/2010		118.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	0.0012	0.0157	<0.0010	<0.0010
MW-30B	12/16/2010		29.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00097	<0.00097	<0.00019	0.0011	0.0107	<0.00097	<0.00097
MW-30B	3/8/2011		0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-30B	6/24/2011		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0049	<0.00096	<0.00096
MW-30B	9/30/2011		16.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00096	<0.00096	<0.00019	0.0012	0.01	<0.00096	<0.00096
MW-30B	12/16/2011		0.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.002	<0.00096	<0.00096	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00096	<0.00096	<0.00019	0.0029	0.0289	<0.00096	<0.00096
MW-30B	4/4/2012		26.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0102	<0.00097	<0.00097
MW-30B	7/12/2012		9.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0029	<0.00095	<0.00095
MW-30B	10/3/2012		12.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0083	<0.00095	<0.00095
MW-30B	7/16/2015		18.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0084	<0.0010	<0.0010
MW-30B	3/12/2018		33.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0058	<0.00095	<0.00095
MW-31A	11/4/2009		>1000	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	0.00084 J	<0.0010	<0.0010
MW-31A	12/15/2009		1025.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31A	6/18/2010		>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-31A	9/21/2010		0.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31A	12/17/2010		>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0026	<0.00096	<0.00096
MW-31A	3/8/2011		27.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-31A	6/24/2011		--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31A	9/30/2011		57.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0026	<0.00097	<0.00097
MW-31A	12/16/2011		542.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0045	<0.00095	<0.00095
MW-31A	4/4/2012		144.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-31A	7/13/2012		60.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31A	10/3/2012		151.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-31A	7/16/2015		332.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0322	0.0012	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0011	<0.0010	<0.0010
MW-31A	3/14/2018		1.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0027	<0.00095	<0.00095
MW-31B	11/4/2009		755.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.00073 J	<0.0010	<0.0010
MW-31B	12/15/2009		93.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31B	6/18/2010		9.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-31B	9/21/2010		0.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31B	3/8/2011		58.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-31B	6/24/2011		--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-31B	9/30/2011		481.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31B	12/16/2011		35.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31B	4/4/2012		722.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31B	7/13/2012		14.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31B	10/3/2012		154.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-31B	7/16/2015		0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	0.0013	<0.0010	<0.0010
MW-31B	3/14/2018		5.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-31C	11/4/2009	>1000	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	0.00038 J	<0.0010	<0.0010
MW-31C	12/15/2009	35.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	*<0.00109*	<0.00109	<0.00109	<0.00109	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	*<0.00038*	<0.00109	<0.00109	<0.00038	<0.00109	<0.00109	<0.00109	<0.00109
MW-31C	6/18/2010	79.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0040	<0.0040	<0.0040	<0.0040	*<0.00080*	*<0.00080*	*<0.00080*	*<0.00080*	*<0.00080*	*<0.00080*	*<0.00080*	<0.0040	<0.0040	<0.00080	<0.0040	<0.0040	<0.0040	<0.0040
MW-31C	9/21/2010	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0038	<0.0038	<0.0038	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	*<0.00076*	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	<0.0038	*<0.00076*	<0.0038	<0.0038	<0.0038	<0.0038
MW-31C	12/17/2010	29.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31C	3/8/2011	3.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31C	6/24/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31C	9/30/2011	20.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0021	<0.00095	<0.00095
MW-31C	12/16/2011	243.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0046	<0.00095	<0.00095
MW-31C	4/4/2012	44.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31C	7/13/2012	100.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-31C	10/3/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.00097	<0.00095	<0.00095
MW-31C	7/16/2015	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.00099	<0.00099	<0.00020	<0.00099	0.002	<0.00099	<0.00099
MW-31C	3/14/2018	12.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.005	<0.00095	<0.00095
MW-32A	11/4/2009	318.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.00051 J	<0.0010	<0.0010
MW-32A	12/16/2009	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-32A	6/16/2010	32.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-32A	9/21/2010	0.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0106	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0011	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-32A	12/15/2010	8.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.002	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32A	3/7/2011	59.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-32A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-32A	9/28/2011	19.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00095	0.000098	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0017	<0.00095	<0.00095
MW-32A	12/13/2011	17.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-32A	4/5/2012	55.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.000098	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.004	<0.00095	<0.00095
MW-32A	7/11/2012	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0111	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-32A	10/3/2012	6.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0022	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0015	<0.00095	<0.00095
MW-32A	7/16/2015	379.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32A	3/14/2018	80.2	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0010	0.0168	<0.0010	<0.0010	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	*<0.0020*	<0.0010	<0.0010	*<0.0020*	<0.0010	0.0055	<0.0010	<0.0010
MW-32B	5/2/2012	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32B	7/11/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32B	10/3/2012	83.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32B	7/16/2015	4.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32B	3/14/2018	4.8	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0013	0.0025	<0.0013	<0.0013	*<0.00025*	*<0.00025*	*<0.00025*	*<0.00025*	*<0.00025*	*<0.00025*	*<0.00025*	<0.0013	0.0017	<0.00025	<0.0013	0.0128	0.0026	<0.0013
MW-32C	5/2/2012	97.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32C	7/11/2012	114.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-32C	10/3/2012	109.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32C	7/16/2015	5.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-32C	3/14/2018	33.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0037	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0061	<0.00096	<0.00096
MW-33A	11/23/2009	16.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-33A	12/17/2009	152.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33A	3/14/2010	262.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33A	6/15/2010	238.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33A	9/20/2010	0.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33A	12/13/2010	162.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-33A	3/7/2011	77.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33A	6/21/2011	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33A	9/26/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33A	7/26/2013	--	Abandoned Due to Non Detections			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-33B	11/23/2009	187.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0078**	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33B	12/17/2009	265.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33B	3/14/2010	309.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33B	6/15/2010	174.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33B	9/20/2010	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33B	12/13/2010	12.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-33B	3/7/2011	18.2	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
MW-33B	6/21/2011	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33B	9/26/2011	2.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-33B	7/26/2013	--	Abandoned Due to Non Detections			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-33C	11/23/2009	62.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33C	12/17/2009	345.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33C	3/14/2010	478.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-33C	6/15/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33C	9/20/2010	0.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-33C	12/13/2010	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-33C	3/7/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-33C	6/21/2011	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097	<0.00097
MW-33C	9/26/2011	521.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-33C	7/26/2013	--	Abandoned Due to Non Detections			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-34A	11/23/2009	1697.0	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	0.0404	<0.020	*<0.020*	*<0.020*	*<0.010*	0.035	<0.010	<0.010	*<0.0020*	*<0.0020*	*<0.0020*	<0.0020	*<0.0020*	*<0.0020*	*<0.0020*	<0.010	0.0151	<0.0020	**0.0691**	**1.29**	<0.010	<0.010
MW-34A	12/16/2009	251.0	<0.0050	0.0369	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0523**	**0.0285**	<0.0050	*<0.040*	0.0591	<0.040	<0.040	*<0.0080*	*<0.0080*	*<0.0080*	<0.0080	*<0.0080*	*<0.0080*	*<0.0080*	<0.040	<0.040	*<0.0080*	**0.113**	**1.92**	*<0.040*	<0.040
MW-34A	6/16/2010	108.0	<0.0050	0.061	0.0058	<0.0050	<0.0050	<0.0050	<0.0050	**0.0441**	**0.0299**	<0.0050	*<0.050*	0.0544	<0.050	<0.050	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.050	<0.050	*<0.010*	**0.106**	**1.53**	*<0.050*	<0.050
MW-34A	9/23/2010	104.0	<0.0098	0.13	0.0176	<0.0098	<0.0098	<0.0098	**0.0548**	**0.0328**	*<0.0098*	*<0.20*	<0.20	<0.20	<0.20	<0.20	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.20	<0.20	*<0.039*	<0.20	**1.89**	*<0.20*	<0.20
MW-34A	12/16/2010	>1000	<0.020	0.116	<0.020	<0.020	<0.020	*<0.020*	0.0404	**0.0562**	**0.0323**	*<0.020*	*<0.039*	0.0616	*<0.039*	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	<0.039	*<0.0078*	**0.101**	**1.3**	*<0.039*	<0.039
MW-34A	3/7/2011	250.0	<0.038	0.0802	<0.038	<0.038	<0.038	*<0.038*	<0.038	**0.0553**	*<0.038*	*<0.038*	*<0.0038*	0.0626	<0.0038	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	0.0271	*<0.00076*	**0.117**	<0.0038	0.0192	<0.0038
MW-34A	6/23/2011	--	<0.0048	0.986	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0558**	**0.0356**	<0.0048	*<0.019*	0.0615	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0266	*<0.0038*	**0.0826**	**2.03**	0.0196	<0.019
MW-34A	9/28/2011	420.0	<0.019	0.175	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0576**	**0.0331**	<0.019	*<0.048*	0.0536	<0.048	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	**0.0982**	**1.68**	<0.048	<0.048
MW-34A	12/15/2011	123.0	<0.020	0.118	<0.020	<0.020	<0.020	<0.020	<0.020	**0.0646**	**0.037**	<0.020	*<0.039*	0.0626	<0.039	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	<0.039	*<0.0078*	**0.122**	**2.53**	<0.039	<0.039
MW-34A	4/4/2012	114.0	<0.095	0.123	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	<0.095	*<0.038*	0.0819	<0.038	<0.038	*<0.0076*	*<0.0076*	*<0.0076*	<0.0076	*<0.0076*	*<0.0076*	*<0.0076*	<0.038	<0.038	*<0.0076*	**0.15**	**3.11**	<0.038	<0.038
MW-34A	7/12/2012	0.0	<0.0095	0.0773	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.0383	**0.0244**	<0.0095	*<0.038*	0.0551	<0.038	<0.038	*<0.0076*	*<0.0076*	*<0.0076*	<0.0076	*<0.0076*	*<0.0076*	*<0.0076*	<0.038	<0.038	*<0.0076*	**0.0916**	**1.24**	<0.038	<0.038
MW-34A	10/2/2012	587.0	<0.019	0.0874	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0722**	**0.0475**	<0.019	*<0.096*	<0.096	<0.096	<0.096	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.096	<0.096	*<0.019*	**0.132**	**2.21**	<0.096	<0.096
MW-34A	7/16/2015	>1000	<0.050	0.458	0.0762	0.108	<0.050	<0.050	<0.050	**0.217**	**0.21**	<0.050	*0.522*	0.24	<0.10	<0.10	*<0.020*	*<0.020*	*<0.020*	<0.020	*<0.020*	*<0.020*	*<0.020*	<0.10	0.124	*<0.020*	**0.408**	**5.53**	0.118	<0.10
MW-34A	3/15/2018	>1000	<0.024	0.324	0.0613	0.0367	<0.024	<0.024	<0.024	**0.325**	0.244	<0.024	<0.19	0.351	<0.19	<0.19	*<0.038*	*<0.038*	*<0.038*	*<0.038*	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.587**	10.9	<0.19	<0.19
MW-35A	2/24/2010	31.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35A	6/18/2010	16.8	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
MW-35A	9/22/2010	54.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.006	<0.0010	<0.0010
MW-35A	12/22/2010	285.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35A	3/10/2011	96.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-35A	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.0020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-35A	9/27/2011	25.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35A	12/16/2011	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35A	4/6/2012	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097	0.0061	<0.00097	<0.00097
MW-35A	7/12/2012	5.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35A	10/4/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35A	7/14/2015	30.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	*<0.00020*	<0.0010	<0.0010	<0.0010	<0.0010
MW-35A	3/16/2018	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35B	2/25/2010	23.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35B	6/18/2010	7.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-35B	9/22/2010	37.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0024	<0.00098	<0.00098
MW-35B	12/22/2010	5.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35B	3/10/2011	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-35B	6/23/2011	--	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0096	<0.00097	<0.00097
MW-35B	9/27/2011	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35B	12/16/2011	1.9	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-35B	4/6/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35B	7/12/2012	477.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35B	10/4/2012	19.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35B	7/14/2015	0.0	*<0.13*	<0.13	<0.13	*<0.13*	<0.13	*<0.13*	*<0.13*	<0.13	*<0.13*	*<0.13*	*<0.025*	<0.025	<0.025	<0.025	*<0.0050*	*<0.0050*	*<0.0050*	<0.0050	*<0.0050*	*<0.0050*	*<0.0050*	<0.025	<0.025	*<0.0050*	<0.025	*<0.025*	<0.025	<0.025
MW-35B	3/16/2018	0.0	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	*<0.024*	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35C	2/25/2010	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35C	6/18/2010	182.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-35C	9/22/2010	122.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0023	<0.00098	<0.00098
MW-35C	12/22/2010	438.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35C	3/10/2011	195.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	0.0023	<0.00099	<0.00099
MW-35C	6/23/2011	--	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0096	<0.00097	<0.00097
MW-35C	9/27/2011	395.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35C	12/16/2011	226.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-35C	4/6/2012	49.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0038	<0.00096	<0.00096
MW-35C	7/12/2012	58.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35C	10/4/2012	319.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-35C	7/14/2015	1000+	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-35C	3/16/2018	46.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-36A	2/25/2010	55.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0026	<0.00095	<0.00095
MW-36A	6/18/2010	>1000	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0013	<0.0010	<0.0010
MW-36A	9/22/2010	17.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0047	<0.00097	<0.00097
MW-36A	12/20/2010	41.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0026	<0.00098	<0.00098
MW-36A	3/10/2011	11.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0013**	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-36A	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0228**	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-36A	9/27/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.00096	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0019	<0.00095	<0.00095
MW-36A	12/14/2011	16.2	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0171	**0.0275**	<0.0049	**0.0959**	0.0476	<0.0049	<0.0049	*<0.00097*	*<0.00097*	<0.00097	<0.00097	<0.00097	*<0.00097*	*<0.00097*	*<0.00097*	<0.0049	0.0207	<0.00097	0.0455	0.166	<0.0049	<0.0049
MW-36A	4/6/2012	71.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0073	<0.0049	<0.0049	0.0054	<0.0049	**0.0214**	0.0128	<0.00097	<0.00097	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	*<0.00019*	<0.00097	0.0046	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-36A	7/12/2012	97.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0024**	0.004	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0017	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-36A	10/3/2012	203.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0119**	<0.0048	0.0048	**0.0082**	<0.0048	**0.0045**	0.0081	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0046	<0.00019	<0.00095	0.006	0.0024	<0.00095
MW-36A	7/14/2015	0.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	**0.0062**	<0.0051	*<0.0010*	0.0098	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	0.0052	*<0.00020*	<0.0010	0.0128	<0.0010	<0.0010
MW-36A	3/28/2018	24.3	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.0161	**0.0184**	<0.0047	*<0.0094*	0.0539	<0.0094	<0.0094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.0094	0.0183	*<0.0019*	<0.0094	0.27	<0.0094	<0.0094
MW-36B	2/25/2010	110.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-36B	6/18/2010	49.2	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	*<0.0010*	0.0017	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0013	*<0.0010*	<0.0010	<0.0010	0.0011	<0.0010
MW-36B	9/22/2010	1.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0461**	**0.12**	<0.0049	*<0.019*	0.167	<0.019	0.036	**0.0352**	**0.0182**	**0.0263**	0.0064	**0.0083**	**0.0263**	*<0.039*	0.167	0.148	**0.0077**	**0.212**	**1.35**	**0.352**	0.105
MW-36B	12/20/2010	60.1	<0.020	<0.020	<0.020	<0.020	<0.020	*<0.020*	<0.020	**0.224**	**0.573**	*<0.020*	*<0.20*	**0.941**	*<0.20*	0.219	**0.234**	**0.116**	**0.166**	0.0437	**0.0544**	**0.179**	*<0.039*	**1.02**	0.81	**0.0489**	**1.21**	**6.5**	**2.09**	0.723
MW-36B	3/10/2011	26.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.085**	**0.141**	<0.0048	**0.0264**	0.179	0.0116	0.0245	**0.0168**	**0.0083**	**0.0114**	0.0031	**0.0041**	**0.0123**	*<0.0010*	0.0815	0.12	**0.0036**	**0.209**	**1.3**	**0.22**	0.515
MW-36B	6/24/2011	--	*<0.098*	<0.098	<0.098	<0.098	<0.098	*<0.098*	<0.098	**0.332**	**0.831**	*<0.098*	*<0.098*	**1.45**	*<0.98*	<0.98	**0.337**	*<0.20*	*<0.20*	<0.20	*<0.20*	**0.272**	*<0.20*	**1.6**	**1.26**	*<0.20*	**1.72**	**11.5**	**3.22**	**1.25**
MW-36B	9/27/2011	40.3	*<0.048*	<0.048	<0.048	<0.048	<0.048	*<0.048*	<0.048	**0.131**	**0.242**	*<0.048*	**0.653**	0.302	*<0.038*	0.0443	**0.039**	**0.0196**	**0.0188**	<0.0076	**0.0172**	**0.0306**	*<0.0076*	0.181	**0.226**	**0.0103**	**0.447**	**3.75**	**0.429**	**0.116**
MW-36B	7/14/2015	--	DNAPL In Well - Did Not Sample			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-36C	2/25/2010	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0018	<0.00095	<0.00095	**0.00021**	<0.00019	0.00019	<0.00019	<0.00019	0.00019	<0.00019	<0.00095	0.0018	<0.00019	0.0037	**0.0083**	0.0031	<0.00095
MW-36C	6/18/2010	--	<0.039	0.0864	<0.039	<0.039	<0.039	*<0.039*	<0.039	<0.039	**0.26**	*<0.039*	*<0.25*	0.39	*<0.25*	<0.25	*<0.049*	*<0.049*	*<0.049*	<0.049	*<0.049*	*<0.049*	*<0.049*	<0.25	0.26	*<0.049*	**0.531**	**5.7**	**0.433**	<0.25
MW-36C	9/22/2010	93.4	<0.038	0.105	<0.038	<0.038	<0.038	*<0.038*	<0.038	**0.118**	**0.249**	*<0.038*	*<0.019*	0.339	<0.019	<0.019	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.019	0.236	*<0.038*	**0.564**	**5.9**	**0.439**	<0.019
MW-36C	12/20/2010	53.2	<0.019	0.114	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.195**	**0.194**	*<0.019*	*<0.19*	0.332	<0.19	<0.19	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.19	0.211	*<0.039*	**0.576**	**5.72**	**0.319**	<0.19
MW-36C	3/10/2011	71.4	<0.019	0.0956	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.159**	**0.176**	*<0.019*	*<0.039*	0.191	<0.039	0.137	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	0.111	*<0.0078*	**0.348**	**5.56**	**0.116**	<0.039
MW-36C	6/24/2011	--	<0.019	0.055	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.0808**	**0.204**	*<0.019*	*<0.097*	0.341	*<0.097*	<0.097	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.097	0.21	*<0.019*	**0.426**	**2.71**	**0.218**	<0.097
MW-36C	9/27/2011	94.3	*<0.048*	0.0968	<0.048	<0.048	<0.048	<0.048	<0.048	**0.17**	**0.176**	*<0.048*	<0.019	0.237	0.0377	0.0248	**0.0149**	**0.0072**	**0.0072**	<0.0038	**0.0069**	**0.0112**	*<0.0038*	0.0721	0.162	*<0.0038*	**0.344**	**5.68**	**0.217**	0.046
MW-36C	7/14/2015	--	DNAPL In Well - Did Not Sample			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-36C	3/28/2018	3.8	<0.0048	0.037	0.0063	0.0113	0.0054	*<0.0048*	<0.0048	**0.179**	**0.16**	*<0.0048*	*<0.019*	0.274	*<0.019*	*<0.019*	*0.0066*	*<0.0038*	*<0.0038*	<0.0038	*0.0038*	*0.0053*	*<0.0038*	0.0474	0.143	*<0.0038*	*0.18*	1.35	*0.16*	0.0313
MW-37A	2/25/2010	60.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.00666	<0.00096	<0.00096
MW-37A	6/16/2010	210.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-37A	9/23/2010	111.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0026	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0012	<0.00097	<0.00097
MW-37A	12/17/2010	392.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0037	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0053	<0.00096	<0.00096
MW-37A	3/8/2011	95.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-37A	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0014	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096
MW-37A	9/28/2011	609.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0025	<0.00095	<0.00095
MW-37A	12/16/2011	800.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-37A	4/4/2012	205.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-37A	7/11/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0034	<0.00095	<0.00095
MW-37A	10/2/2012	>800	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096	0.0011	<0.00096	<0.00096
MW-37A	7/15/2015	>1000	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-37A	3/16/2018	660.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-37B	2/25/2010	60.2	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	<0.0095	0.0196	<0.0095	*<0.0095*	*<0.019*	0.0254	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	<0.019	*<0.0038*	0.0334	0.453	<0.019	<0.019
MW-37B	6/16/2010	489.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0176	<0.0050	<0.0050	*<0.0040*	0.0228	<0.0040	<0.0040	*<0.00079*	*<0.00079*	*<0.00079*	<0.00079	*<0.00079*	*<0.00079*	*<0.00079*	<0.0040	<0.0040	*<0.00079*	0.021	0.179	<0.0040	<0.0040
MW-37B	9/23/2010	138.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0359	<0.0049	<0.0049	<0.00097	0.0365	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	0.0075	<0.00019	**0.0487**	0.169	0.0014	<0.00097
MW-37B	12/17/2010	146.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0256	<0.0048	<0.0048	*<0.0077*	0.0385	<0.0077	<0.0077	*<0.0010*	*<0.0010*	*<0.0010*	<0.0010	*<0.0010*	*<0.0010*	*<0.0010*	<0.0077	<0.0077	*<0.0010*	**0.05**	0.225	<0.0077	<0.0077
MW-37B	3/9/2011	49.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0248	<0.0048	<0.0048	*<0.0038*	0.0293	<0.0038	<0.0038	*<0.00077*	*<0.00077*	*<0.00077*	<0.00077	*<0.00077*	*<0.00077*	*<0.00077*	<0.0038	0.0038	*<0.00077*	0.0291	0.0947	<0.0038	<0.0038
MW-37B	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0138	<0.0048	<0.0048	*<0.00095*	0.0192	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0021	<0.00019	0.0168	0.0476	<0.00095	<0.00095
MW-37B	9/28/2011	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.016	<0.0048	<0.0048	<0.00096	0.022	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0036	<0.00096	0.0222	0.0193	<0.00096	<0.00096
MW-37B	12/16/2011	>800.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0225	<0.0048	<0.0048	*<0.00095*	0.0261	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0036	<0.00019	**0.0316**	0.0171	<0.00095	<0.00095
MW-37B	4/4/2012	>800.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0126	<0.0050	<0.0050	<0.0010	0.0243	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0034	<0.00020	0.019	0.004	<0.0010	<0.0010
MW-37B	7/11/2012	522.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0273	<0.0048	<0.0048	*<0.00095*	0.0463	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.009	<0.00019	**0.0514**	0.0131	0.0014	<0.00095
MW-37B	10/2/2012	494.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0244	<0.0048	<0.0048	*<0.00095*	0.0312	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0056	<0.00019	0.027	0.0113	<0.00095	<0.00095
MW-37B	7/15/2015	583.0	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0202	<0.0051	<0.0051	<0.0010	0.0393	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0081	<0.00020	**0.047**	0.0033	0.0013	<0.0010
MW-37B	3/16/2018	512.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0101	0.0103	<0.0048	<0.0048	0.116	<0.0048	<0.0048	*<0.00096*	*<0.00096*	*<0.00096*	*<0.00096*	*<0.00096*	*<0.00096*	*<0.00096*	<0.0048	0.0295	*<0.00096*	**0.0996**	0.157	0.0059	0.0048
MW-37C	9/12/2011	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	0.0054	0.0059	0.005	<0.0010	0.0077	<0.0010	0.0025	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.0062	<0.00020	0.0045	0.0291	0.0051	<0.0010
MW-37C	12/16/2011	44.1	<0.0048	0.0052	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0183	0.0149	<0.0048	<0.024	0.0251	<0.024	<0.024	*<0.0048*	*<0.0048*	*<0.0048*	<0.0048	*<0.0048*	*<0.0048*	*<0.0048*	<0.024	<0.024	*<0.0048*	**0.0468**	0.719	*<0.024*	<0.024
MW-37C	4/4/2012	40.0	<0.0050	0.0095	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0305	**0.0205**	<0.0050	<0.0040	0.0297	0.0043	<0.0040	*<0.00080*	*<0.00080*	*<0.00080*	<0.00080	*<0.00080*	*<0.00080*	*<0.00080*	<0.0040	0.016	*<0.00080*	**0.0459**	0.975	0.0112	<0.0040
MW-37C	7/11/2012	21.0	<0.0048	0.0102	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0283	0.019	<0.0048	*<0.048*	0.0558	<0.048	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	**0.0719**	0.884	*<0.048*	<0.048
MW-37C	10/2/2012	15.5	<0.0048	0.0102	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0576**	**0.0452**	<0.0048	*<0.095*	<0.095	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	*<0.095*	**1.81**	*<0.095*	<0.095
MW-37C	7/15/2015	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0507**	**0.0375**	<0.0049	*<0.039*	0.0544	*<0.039*	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	<0.039	*<0.0078*	**0.0612**	**1.32**	*<0.039*	<0.039
MW-37C	3/15/2018	53.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	***0.0073***	0.0035	*<0.00096*	<0.00096	*<0.0011*	*0.00082*	*0.00082*	0.00039	*0.00073*	*0.0012*	*0.00021*	0.0045	0.003	***0.00056***	*<0.00096*	0.0057	*0.0022*	0.003

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-38A	4/14/2010	903.0	<0.019	0.0579	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.196**	**0.119**	*<0.019*	*<0.095*	0.257	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	**0.305**	**6.51**	*<0.095*	<0.095
MW-38A	6/17/2010	97.1	<0.025	0.0552	<0.025	<0.025	<0.025	*<0.025*	<0.025	**0.110**	**0.0719**	**0.025**	*<0.020*	0.131	*<0.020*	<0.020	*<0.0040*	*<0.0040*	*<0.0040*	<0.0040	*<0.0040*	*<0.0040*	*<0.0040*	<0.020	0.0587	*<0.0040*	**0.12**	**3.24**	**0.0412**	<0.020
MW-38A	9/22/2010	0.4	<0.049	0.206	0.0588	0.0616	<0.049	*<0.049*	<0.049	**0.212**	**0.0850**	*<0.049*	*<0.20*	0.221	*<0.20*	<0.20	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.20	<0.20	*<0.039*	**0.317**	**7.31**	*<0.20*	<0.20
MW-38A	12/17/2010	26.2	<0.0048	0.214	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.174**	**0.0879**	<0.0048	*<0.19*	0.215	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.29**	**6.08**	*<0.19*	<0.19
MW-38A	3/8/2011	0.0	<0.12	0.153	<0.12	<0.12	<0.12	<0.12	<0.12	**0.239**	**0.121**	*<0.12*	*<0.097*	0.256	*<0.097*	<0.097	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.097	<0.097	*<0.019*	**0.275**	**5.62**	*<0.097*	<0.097
MW-38A	6/23/2011	--	<0.048	0.0935	<0.048	<0.048	<0.048	<0.048	<0.048	**0.14**	**0.0704**	*<0.048*	*<0.019*	0.186	*<0.019*	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0587	*<0.0038*	**0.141**	**5.38**	**0.0314**	<0.019
MW-38A	9/28/2011	2.1	<0.048	0.209	<0.048	<0.048	<0.048	<0.048	<0.048	**0.237**	**0.108**	*<0.048*	*<0.048*	0.254	*<0.048*	<0.048	*<0.0096*	*<0.0096*	*<0.0096*	<0.0096	*<0.0096*	*<0.0096*	*<0.0096*	<0.048	0.0978	*<0.0096*	**0.345**	**6.87**	*<0.048*	<0.048
MW-38A	12/13/2011	26.8	<0.096	0.127	<0.096	<0.096	<0.096	<0.096	<0.096	**0.194**	**0.108**	*<0.096*	*<0.24*	<0.24	*<0.24*	<0.24	*<0.048*	*<0.048*	*<0.048*	<0.048	*<0.048*	*<0.048*	*<0.048*	<0.24	<0.24	*<0.048*	*<0.24*	**6.25**	*<0.24*	<0.24
MW-38A	4/5/2012	2.2	<0.048	0.114	<0.048	<0.048	<0.048	<0.048	<0.048	**0.185**	**0.0869**	*<0.048*	*<0.96*	0.216	*<0.096*	<0.096	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.096	<0.096	*<0.019*	**0.227**	**5.36**	*<0.096*	<0.096
MW-38A	7/10/2012	0.8	<0.019	0.132	0.0206	<0.019	<0.019	<0.019	<0.019	**0.198**	**0.118**	*<0.019*	*<0.19*	0.251	*<0.19*	<0.19	*<0.038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	<0.19	*<0.19*	**0.225**	**5.59**	*<0.19*	<0.19
MW-38A	10/3/2012	7.3	<0.048	0.111	<0.048	<0.048	<0.048	<0.048	<0.048	**0.23**	**0.123**	*<0.048*	*<0.048*	0.215	*<0.048*	<0.048	*<0.0096*	*<0.0096*	*<0.0096*	<0.0096	*<0.0096*	*<0.0096*	*<0.0096*	<0.048	0.0857	*<0.0096*	**0.228**	**7.23**	*<0.048*	<0.048
MW-38A	7/14/2015	0.0	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	**0.149**	**0.111**	<0.0020	*<0.095*	0.202	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	*<0.095*	**3.06**	*<0.095*	<0.095
MW-38A	3/13/2018	1.2	<0.020	0.0648	<0.020	<0.020	<0.020	<0.020	<0.020	**0.275**	**0.207**	<0.020	<0.050	0.309	<0.050	<0.050	*<0.0099*	*<0.0099*	*<0.0099*	<0.0099	*<0.0099*	*<0.0099*	*<0.0099*	<0.050	0.151	*<0.0099*	**0.225**	**6.05**	**0.108**	<0.050
MW-38B	4/14/2010	19.3	<0.0048	0.0201	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0743**	**0.0223**	<0.0048	*<0.0095*	<0.0095	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	<0.0095	*<0.00109*	<0.0095	**2.49**	<0.0095	<0.0095
MW-38B	6/17/2010	6.2	<0.0099	0.0272	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	**0.0582**	**0.0154**	*<0.0099*	*<0.020*	0.0486	<0.020	<0.020	*<0.0040*	*<0.0040*	*<0.0040*	<0.0040	*<0.0040*	*<0.0040*	*<0.0040*	<0.020	<0.020	*<0.0040*	0.03	0.604	<0.020	<0.020
MW-38B	9/22/2010	0.0	<0.049	0.197	0.0524	0.0554	<0.049	*<0.049*	<0.049	**0.246**	**0.119**	*<0.19*	**0.297**	<0.19	*<0.19*	<0.19	*<0.039*	*<0.039*	*<0.039*	<0.039	*<0.039*	*<0.039*	*<0.039*	<0.19	<0.19	*<0.039*	**0.395**	**8.92**	*<0.19*	<0.19
MW-38B	12/17/2010	7.2	<0.0048	0.235	0.0544	0.0527	<0.0048	<0.0048	<0.0048	**0.201**	**0.0982**	<0.0048	*<0.19*	0.284	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.391**	**7.58**	*<0.19*	<0.19
MW-38B	3/8/2011	0.0	*<0.12*	0.134	<0.12	<0.12	<0.12	*<0.12*	*<0.12*	**0.174**	*<0.12*	*<0.12*	*<0.097*	0.188	*<0.097*	<0.097	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.097	<0.097	*<0.00109*	**0.211**	**6.54**	*<0.097*	<0.097
MW-38B	6/23/2011	--	<0.048	0.085	<0.048	<0.048	<0.048	*<0.048*	<0.048	**0.13**	**0.062**	*<0.048*	*<0.48*	<0.48	*<0.48*	<0.48	*<0.096*	*<0.096*	*<0.096*	<0.096	*<0.096*	*<0.096*	*<0.096*	<0.48	<0.48	*<0.096*	*<0.48*	**6**	*<0.48*	<0.48
MW-38B	9/28/2011	20.2	<0.048	0.161	<0.048	<0.048	<0.048	<0.048	<0.048	**0.229**	**0.124**	*<0.048*	*<0.048*	0.276	*<0.048*	*<0.048*	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	0.114	*<0.0095*	0.296	**6.3**	**0.0536**	<0.048
MW-38B	12/13/2011	15.5	<0.019	0.164	<0.019	<0.019	<0.019	<0.019	<0.019	**0.135**	**0.0823**	*<0.019*	*<0.19*	<0.19	*<0.19*	*<0.19*	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	<0.19	*<0.038*	**0.208**	**5.66**	*<0.19*	<0.19
MW-38B	4/5/2012	58.5	<0.048	0.131	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.147**	**0.0968**	<0.0048	*<0.095*	0.233	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	<0.0095	*<0.00109*	**0.264**	**7.03**	<0.0095	<0.0095
MW-38B	7/10/2012	0.2	<0.038	0.208	<0.038	<0.038	<0.038	<0.038	<0.038	**0.302**	**0.176**	*<0.038*	*<0.095*	0.388	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	0.158	*<0.00109*	**0.397**	**15**	<0.0095	<0.0095
MW-38B	10/3/2012	83.7	<0.024	0.171	<0.024	<0.024	<0.024	<0.024	<0.024	**0.199**	**0.121**	*<0.024*	*<0.095*	0.211	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	0.158	*<0.00109*	**0.21**	**6.4**	<0.0095	<0.0095
MW-38B	7/14/2015	0.0	<0.0048	0.0161	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.153**	**0.107**	*<0.0048*	*<0.095*	0.198	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	*<0.095*	**3.33**	*<0.095*	<0.095
MW-38B	3/13/2018	1.8	<0.019	0.0399	<0.019	<0.019	<0.019	<0.019	<0.019	**0.207**	**0.168**	*<0.019*	*<0.048*	0.355	*<0.048*	*<0.048*	*<0.0096*	*<0.0096*	*<0.0096*	*<0.0096*	*<0.0096*	*<0.0096*	*<0.0096*	<0.048	0.174	*<0.0096*	**0.189**	**3.78**	**0.131**	<0.048
MW-38C	4/14/2010	739.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	*<0.0095*	<0.0095	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	<0.0095	*<0.00109*	<0.0095	<0.0095	<0.0095	<0.0095
MW-38C	6/17/2010	11.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-38C	9/22/2010	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.00098	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	0.00098	0.0081	0.0013	<0.00096
MW-38C	12/15/2010	4.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38C	3/8/2011	12.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38C	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38C	9/28/2011	58.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.001	<0.00096	<0.00096
MW-38C	12/13/2011	672.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.009	<0.00096	<0.00096
MW-38C	4/5/2012	7.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-38C	7/10/2012	30.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0035	<0.00095	<0.00095
MW-38C	10/3/2012	246.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.006	<0.00096	<0.00096
MW-38C	7/15/2015	229.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-38C	3/13/2018	123.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0014	<0.0010	<0.0010
MW-38D	4/14/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	*<0.0095*	<0.0095	<0.0095	<0.0095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.0095	<0.0095	*<0.00109*	<0.0095	<0.0095	<0.0095	<0.0095
MW-38D	6/17/2010	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-38D	9/22/2010	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0071	<0.00097	<0.00097
MW-38D	12/15/2010	27.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-38D	3/8/2011	15.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38D	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-38D	9/28/2011	32.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0018	<0.00095	<0.00095
MW-38D	12/13/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0032	<0.00095	<0.00095
MW-38D	4/5/2012	12.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38D	7/10/2012	5.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-38D	10/3/2012	21.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0047	<0.00095	<0.00095
MW-38D	7/15/2015	4.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-38D	3/13/2018	29.6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0082	<0.00097	<0.00097
MW-39A	4/14/2010	>1000	<0.095	0.498	<0.095	<0.095	<0.095	*<0.095*	<0.095	**1.28**	**5.35**	*<0.095*	*<0.48*	**6.6**	**1.13**	**2.23**	**2.37**	**1.42**	**1.7**	0.682	**0.68**	**1.81**	**0.178**	**9.31**	**6.97**	**0.788**	**8.36**	**38.2**	**17.4**	**6.54**
MW-39A	6/16/2010	--	<0.0050	0.656	0.0806	0.0842	<0.0050	<0.0050	<0.0050	**0.36**	**0.428**	<0.0050	*<0.20*	0.324	**0.2**	0.2	**0.0452**	<0.040	<0.040	<0.040	<0.040	<0.040	*<0.040*	0.201	0.246	*<0.040*	**0.617**	**6.56**	**0.485**	0.2
MW-39A	9/23/2010	60.8	<0.079	0.692	0.0933	0.119	<0.079	*<0.079*	<0.079	**0.621**	**1.2**	*<0.079*	*<0.40*	1.77	*<0.40*	0.533	**0.577**	**0.306**	**0.473**	0.0852	**0.146**	**0.426**	*<0.079*	**2.35**	**1.74**	**0.102**	**2.5**	**15.8**	**4.59**	**1.62**
MW-39A	12/21/2010	26.8	<0.038	0.38	0.0475	0.0644	<0.038	*<0.038*	<0.038	**0.336**	**0.256**	*<0.038*	*<0.19*	0.342	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.228	<0.038	**0.702**	**7.3**	**0.338**	<0.19
MW-39A	3/11/2011	81.4	<0.095	0.33	<0.095	<0.095	<0.095	*<0.095*	<0.095	**0.391**	**0.4**	*<0.095*	*<0.048*	0.427	**0.0716**	0.085	**0.0567**	**0.0283**	**0.0386**	<0.0095	**0.137**	**0.0429**	*<0.0095*	**0.252**	0.315	**0.0113**	**0.79**	**9.2**	**0.618**	0.161
MW-39A	6/24/2011	--	<0.049	0.0919	<0.049	<0.049	<0.049	*<0.049*	<0.049	**0.353**	**0.334**	*<0.049*	*<0.98*	0.98	*<0.98*	<0.98	*<0.20*	*<0.20*	*<0.20*	<0.20	*<0.20*	*<0.20*	*<0.20*	*<0.98*	<0.98	*<0.20*	*<0.98*	**11.2**	*<0.98*	*<0.98*
MW-39A	9/28/2011	50.4	<0.19	0.481	<0.19	<0.19	<0.19	*<0.19*	<0.19	**0.349**	**0.641**	*<0.19*	*<0.48*	0.802	*<0.48*	<0.48	**0.185**	*<0.096*	**0.119**	<0.096	*<0.096*	**0.149**	*<0.096*	**0.84**	0.702	*<0.096*	**1.27**	**10.9**	**1.74**	0.518

ARCADIS

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-39B	4/14/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0077	0.0125	<0.0048	*<0.0095*	0.0153	0.0028	0.0035	**0.0029**	**0.0016**	**0.002**	0.00085	**0.00075**	**0.0021**	**0.00022**	0.0127	0.0138	0.00099	0.0195	0.0153	**0.0284**	0.0088
MW-39B	6/17/2010	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-39B	9/23/2010	252.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	0.0022	<0.00099	<0.00099
MW-39B	12/15/2010	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-39B	3/8/2011	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-39B	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.0097
MW-39B	9/28/2011	124.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-39B	12/13/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0018	<0.00095	<0.00095
MW-39B	4/5/2012	378.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0016	<0.00097	<0.0097
MW-39B	7/12/2012	52.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.0097
MW-39B	10/2/2012	65.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-39B	7/15/2015	11.8	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00095	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-39B	3/14/2018	40.2	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	*<0.0013*	*<0.0013*	*<0.0013*	*<0.0013*	*<0.00025*	*0.00029*	*0.00053*	0.00033	*0.00031*	*0.00026*	*<0.00025*	<0.0013	<0.0013	*0.00042*	*<0.0013*	0.0045	*<0.0013*	*<0.0013*
MW-40A	4/14/2010	762.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-40A	6/16/2010	47.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-40A	9/23/2010	65.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0043	<0.00097	<0.00097
MW-40A	3/7/2011	238.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40A	6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0043	<0.00097	<0.0097
MW-40A	9/27/2011	380.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0042	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0012	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40A	12/14/2011	104.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40A	4/3/2012	23.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0079	<0.00095	<0.00095
MW-40A	7/13/2012	39.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40A	10/4/2012	89.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0032	<0.00095	<0.00095
MW-40A	7/16/2015	232.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0037	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-40A	3/16/2018	22.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0027	<0.00096	<0.00096
MW-40B	4/20/2010	314.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0011	0.002	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-40B	6/16/2010	92.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0105	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0013	0.0042	<0.00020	<0.0010	0.0159	0.0034	<0.0010
MW-40B	9/23/2010	277.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0042	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00099	0.0017	<0.00020	<0.00098	0.0027	0.0015	<0.00098
MW-40B	12/14/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0041	<0.00096	<0.00096	0.00032	0.00023	0.00043	<0.00019	<0.00019	**0.00032**	<0.00019	0.0015	0.0016	0.00019	<0.00096	0.0012	<0.00096	0.001
MW-40B	3/7/2011	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-40B	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0081	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0035	<0.00019	<0.00096	0.0054	<0.00096	<0.00096
MW-40B	9/27/2011	93.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40B	12/14/2011	112.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0076	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0019	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40B	4/3/2012	99.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0029	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40B	7/13/2012	22.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0029	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40B	10/4/2012	14.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0103	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0026	<0.00019	<0.00095	0.0064	<0.00095	<0.00095
MW-40B	7/16/2015	162.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-40B	3/16/2018	83.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0024	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-40C	4/14/2010	21.8	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0071	0.00134	<0.0049	<0.00098	0.0268	<0.00098	0.0049	**0.00039**	<0.00020	**0.00022**	<0.00020	<0.00020	**0.00034**	<0.00020	0.01	0.0137	<0.00020	<0.00098	<0.00098	**0.0214**	0.0058
MW-40C	6/16/2010	62.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0020*	0.0333	<0.0020	0.0073	**0.00048**	*<0.00040*	*<0.00040*	<0.00040	*<0.00040*	*<0.00040*	*<0.00040*	0.016	0.014	<0.0004	0.0151	0.0559	**0.0335**	0.0088
MW-40C	9/23/2010	0.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.007	**0.0178**	<0.0049	<0.00098	0.0325	<0.00098	0.0055	**0.00039**	<0.00020	<0.00020	<0.00020	<0.00020	**0.00033**	<0.00020	0.016	0.0211	<0.00020	0.0023	0.0155	**0.0319**	0.0088
MW-40C	12/17/2010	30.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.007	<0.0048	<0.0048	<0.00096	0.0173	<0.00096	0.0028	**0.00025**	<0.00019	<0.00019	<0.00019	<0.00019	**0.00024**	<0.00019	0.00091	0.0109	<0.00019	<0.00096	0.0033	0.0134	0.006
MW-40C	3/7/2011	27.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0104	<0.00098	0.0021	**0.0024**	0.0017	**0.003**	0.0011	**0.0011**	**0.0024**	**0.00033**	0.0108	0.0064	**0.0013**	<0.00098	<0.00098	0.0073	0.0063
MW-40C	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0056	<0.0049	<0.00097	0.0187	<0.00097	0.0021	**0.00026**	<0.00019	<0.00019	<0.00019	<0.00019	**0.00021**	<0.00019	0.0094	0.0123	<0.00019	<0.00097	0.0014	0.0098	0.0057
MW-40C	9/28/2011	162.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0152	<0.00095	0.0011	**0.00023**	<0.00019	<0.00019	<0.00019	<0.00019	0.00019	<0.00019	0.0084	0.0098	<0.00019	<0.00095	0.001	0.0035	0.0034
MW-40C	12/14/2011	12.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0133	<0.00097	0.001	**0.00062**	0.00031	0.00045	0.00019	**0.00029**	**0.00055**	<0.00019	0.0092	0.0102	0.00023	<0.00097	<0.00097	0.0036	0.0051
MW-40C	4/3/2012	2.6	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0071	<0.00097	<0.00097	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	*<0.00019*	0.005	0.0054	<0.00019	<0.00097	0.0039	0.0012	0.0025
MW-40C	7/13/2012	32.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0108	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0019	<0.00019	0.0087	0.0075	<0.00019	<0.00095	<0.00095	0.00095	0.0047
MW-40C	10/4/2012	7.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0068	<0.00097	<0.00097	*<0.00019*	*<0.00019*	*<0.00019*	<0.00019	*<0.00019*	*<0.00019*	*<0.00019*	0.0071	0.0038	<0.00019	<0.00097	<0.00097	0.0037	0.0025
MW-40C	7/16/2015	232.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0019	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.0051	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	0.0026
MW-40C	3/16/2018	160.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	*<0.00019*	<0.00095	<0.00095	<0.00095	0.0025
MW-41A	12/15/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-41A	3/8/2011	254.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-41A	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0038	<0.00097	<0.00097
MW-41A	9/28/2011	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0017	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	0.001	0.0092	<0.00097	<0.048
MW-41A	12/13/2011	472.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0078	<0.00096	<0.00096
MW-41A	4/5/2012	476.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0015	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0037	<0.00098	<0.00098
MW-41A	7/10/2012	244.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.00098	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0062	<0.00095	<0.00095
MW-41A	10/3/2012	280.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-41A	7/15/2015	1.6	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00095	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-41A	3/16/2018	903.0	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	*<0.0011*	*<0.0011*	*<0.0011*	*<0.0011*	*<0.00022*	*<0.00022*	*<0.00022*	*<0.00022*	*<0.00022*	*<0.00022*	*<0.00022*	*<0.0011*	*<0.0011*	*<0.00022*	*<0.0011*	0.0019	*<0.0011*	*<0.0011*

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-42A	12/15/2010	322.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0043	<0.00097	<0.00097
MW-42A	3/8/2011	42.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-42A	6/23/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-42A	9/28/2011	64.5	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-42A	12/13/2011	26.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0016	<0.00095	<0.00095
MW-42A	4/4/2012	31.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-42A	7/10/2012	30.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-42A	10/2/2012	74.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-42A	7/15/2015	66.6	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00095	<0.00019	<0.00094	0.0021	<0.00094	<0.00094
MW-42A	3/14/2018	8.9	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0013	<0.0013	<0.0013	<0.0013	*<0.00027*	*<0.00027*	*<0.00027*	*<0.00027*	*<0.00027*	*<0.00027*	*<0.00027*	<0.0013	<0.0013	*<0.00027*	<0.0013	0.0026	<0.0013	<0.0013
MW-42B	12/15/2010	251.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0043	<0.00097	<0.00097
MW-42B	3/8/2011	139.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0013	<0.00095	<0.00095
MW-42B	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-42B	9/28/2011	72.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-42B	12/13/2011	40.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0032	<0.00096	<0.00096
MW-42B	4/4/2012	69.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-42B	7/10/2012	3.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-42B	10/2/2012	116.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-42B	7/15/2015	30.6	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00095	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-43A	12/15/2010	426.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0067	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	0.0039	0.0189	<0.00098	<0.00098
MW-43A	3/8/2011	123.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	0.0022	<0.00099	<0.00099
MW-43A	6/22/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0029	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0073	<0.00097	<0.00097
MW-43A	9/28/2011	47.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0042	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	0.0014	0.0088	<0.00097	<0.00097
MW-43A	12/13/2011	288.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0032	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.005	<0.00096	<0.00096
MW-43A	4/5/2012	88.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0036	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	0.0017	0.0085	<0.00095	<0.00095
MW-43A	7/11/2012	46.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0054	<0.0048	<0.0048	<0.0048	<0.00096	0.0046	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	0.0018	0.0027	<0.00096	<0.00096
MW-43A	10/2/2012	267.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0039	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	0.0011	0.0019	<0.00097	<0.00097
MW-43A	7/17/2015	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0054	<0.0048	<0.0048	<0.00096	0.0023	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-44A	12/22/2010	94.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-44A	3/10/2011	64.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.0027	<0.0010	<0.0010
MW-44A	6/23/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.0020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-44A	9/27/2011	0.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-44A	12/16/2011	151.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0031	<0.00095	<0.00095
MW-44A	4/6/2012	97.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0059	<0.00095	<0.00095
MW-44A	7/13/2012	11.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-44A	10/4/2012	2.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0057	<0.00095	<0.00095
MW-44A	7/14/2015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	*<0.00020*	<0.00020	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-44A	3/26/2018	4.6	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00095	0.002	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	<0.00095	0.0013	*<0.00019*	<0.00095	0.0021	<0.00095	<0.00095
MW-45A	12/22/2010	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-45A	3/10/2011	63.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0017	<0.00095	<0.00095
MW-45A	6/21/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-45A	9/27/2011	44.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0014	<0.00095	<0.00095
MW-45A	12/15/2011	416.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45A	4/4/2012	17.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0011	<0.00096	<0.00096
MW-45A	7/13/2012	54.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0011	<0.00095	<0.00095
MW-45A	10/3/2012	136.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-45A	7/14/2015	5.3	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00094	<0.00019	<0.00094	<0.00019	<0.00019	<0.00019
MW-45A	4/9/2018	41.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-45B	12/22/2010	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-45B	3/10/2011	784.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.001	<0.00095	<0.00095
MW-45B	6/21/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45B	9/27/2011	109.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45B	12/15/2011	46.7	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45B	4/4/2012	580.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-45B	7/13/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45B	10/3/2012	>800	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-45B	7/14/2015	1000+	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0011*	<0.0011	<0.0011	<0.0011	*<0.00022*	*<0.00022*	*<0.00022*	<0.00022	*<0.00022*	*<0.00022*	<0.00022	<0.0011	<0.0011	<0.00022	<0.0011	*<0.00022*	<0.00022	<0.00022
MW-45B	4/9/2018	482.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-45C	12/22/2010	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	0.0012	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-45C	3/10/2011	138.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0017	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0099	<0.00095	<0.00095
MW-45C	6/22/2011	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0080*	0.0315	<0.0080	<0.0080	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	*<0.0010*	<0.0080	0.0155	*<0.0010*	<0.0080	0.205	0.0082	<0.0080
MW-45C	9/27/2011	692.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0272	**0.0188**	<0.0048	<0.00095	0.0362	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0172	<0.00019	<0.00095	0.104	0.0078	<0.00095
MW-45C	12/15/2011	340.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.074**	**0.0688**	<0.0048	<0.015	0.128	<0.015	<0.015	*<0.0031*	*<0.0031*	*<0.0031*	<0.0031	*<0.0031*	*<0.0031*	*<0.0031*	<0.015	0.0633	*<0.0031*	<0.015	<0.015	**0.0391**	<0.015
MW-45C	4/4/2012	217.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.0672**	**0.0535**	<0.0049	<0.00097	0.0869	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	0.0463	<0.00019	<0.00097	0.47	**0.0283**	<0.00097
MW-45C	7/13/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0615**	**0.0523**	<0.0048	*<0.019*	0.178	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0927	*<0.0038*	<0.019	0.545	**0.0476**	<0.019
MW-45C	10/3/2012	285.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0248	**0.0198**	<0.0048	<0.00095	0.0378	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0194	<0.00019	0.0017	0.13	0.0108	<0.00095
MW-45C	7/14/2015	196.0	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	0.0159	**0.0174**	<0.0056	*<0.0011*	0.0326	<0.0011	<0.0011	*<0.00022*	*<0.00022*	*<0.00022*	<0.00022	*<0.00022*	*<0.00022*	<0.00022	<0.0011	0.0161	<0.00022	<0.0011	0.0078	0.0068	<0.0011
MW-45C	4/9/2018	862.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-46A	12/22/2010	>1000	<0.048	0.164	<0.048	<0.048	<0.048	*<0.048*	<0.048	**0.0766**	*<0.048*	*<0.048*	**0.129**	0.0871	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.04	*<0.0038*	**0.107**	0.643	**0.0233**	<0.019
MW-46A	3/10/2011	>1000	<0.0049	0.0264	0.006	<0.0049	<0.0049	*<0.0049*	<0.0049	**0.0106**	0.0079	<0.0049	**0.115**	0.0135	<0.0039	<0.0039	*<0.00078*	*<0.00078*	*<0.00078*	<0.00078	*<0.00078*	*<0.00078*	*<0.00078*	<0.0039	0.0055	*<0.00078*	0.01	0.0631	<0.0039	<0.0039
MW-46A	6/22/2011	--	<0.019	0.199	0.0418	0.0201	<0.019	**0.0439**	<0.019	**0.0542**	**0.0332**	*<0.019*	*<0.048*	0.0817	<0.048	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	**0.111**	**1.63**	*<0.048*	<0.048
MW-46A	9/27/2011	231.0	0.0269	0.214	0.0376	<0.019	<0.019	**0.0401**	<0.019	<0.019	**0.0236**	*<0.019*	*<0.0038*	0.0434	0.0047	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	0.0176	*<0.00076*	0.0243	0.0477	0.0065	<0.0038
MW-46A	12/15/2011	691.0	<0.019	0.0506	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	*<0.019*	*<0.015*	0.0239	<0.015	<0.015	*<0.0031*	*<0.0031*	*<0.0031*	<0.0031	*<0.0031*	*<0.0031*	*<0.0031*	<0.015	<0.015	*<0.0031*	**0.0346**	0.493	<0.015	<0.015
MW-46A	4/6/2012	244.0	0.007	0.131	0.0199	0.0055	<0.0048	<0.0048	<0.0048	0.0175	**0.0213**	<0.0048	*<0.024*	0.0509	<0.024	<0.024	*<0.0048*	*<0.0048*	*<0.0048*	<0.0048	*<0.0048*	*<0.0048*	*<0.0048*	<0.024	<0.024	*<0.0048*	**0.0417**	0.757	*<0.024*	<0.024
MW-46A	7/11/2012	70.1	<0.019	0.143	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0522**	**0.0326**	*<0.019*	*<0.0038*	0.0637	0.0067	<0.0038	*<0.00077*	*<0.00077*	*<0.00077*	<0.00077	*<0.00077*	*<0.00077*	*<0.00077*	<0.0038	0.0264	*<0.00077*	**0.0974**	**1.29**	0.0142	<0.0038
MW-46A	10/2/2012	67.3	<0.019	0.147	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0522**	**0.0326**	*<0.019*	*<0.095*	<0.095	*<0.095*	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	**0.141**	**2.14**	*<0.095*	<0.095
MW-46A	7/15/2015	1000+	<0.0063	0.225	0.014	<0.0063	<0.0063	<0.0063	<0.0063	**0.0661**	**0.0366**	<0.0063	*<0.013*	0.0732	*<0.013*	<0.013	*<0.025*	*<0.025*	*<0.025*	<0.025	*<0.025*	*<0.025*	*<0.025*	<0.013	0.0317	*<0.025*	**0.0339**	0.127	0.0165	<0.013
MW-46A	3/16/2018	141.0	<0.0048	0.0171	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0144	**0.0178**	<0.0048	*<0.019*	0.026	*<0.019*	*<0.019*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	<0.019	*<0.0038*	<0.0299	0.418	<0.019	<0.019
MW-47A	12/22/2010	482.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0026	<0.00096	<0.00096
MW-47A	3/10/2011	390.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	<0.00099	<0.00099	<0.00099
MW-47A	6/22/2011	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	*<0.0010*	<0.0010	<0.0010	<0.0010	<0.0010
MW-47A	9/27/2011	362.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0022	<0.00096	<0.00096
MW-47A	12/14/2011	89.9	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-47A	4/4/2012	158.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	*<0.0010*	<0.0010	<0.0010	<0.0010	<0.0010
MW-47A	7/11/2012	327.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0362	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0048	<0.00095	<0.00095
MW-47A	7/15/2015	216.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-47A	3/28/2018	4.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0028	<0.00095	<0.00095	*0.00035*	*0.00019*	*0.0002*	<0.00019	*0.00019*	*0.00032*	*<0.00019*	0.002	0.0022	<0.00019	0.0012	0.0044	0.0046	0.0014
MW-48A	1/11/2011	--	<0.095	0.134	<0.095	<0.095	<0.095	*<0.095*	<0.095	**0.351**	**1.09**	*<0.095*	*<0.38*	1.34	*<0.38*	<0.38	**0.365**	**0.18**	**0.254**	<0.076	**0.102**	**0.277**	*<0.076*	**1.64**	**1.26**	*<0.076*	**1.69**	**8.48**	**3.15**	**1.01**
MW-48A	6/21/2011	--	<0.020	0.408	0.0367	0.0381	<0.020	*<0.020*	<0.020	**0.318**	**0.452**	*<0.020*	*<0.20*	0.672	*<0.20*	<0.20	**0.101**	**0.05**	**0.0561**	<0.039	**<0.039**	**0.0814**	*<0.039*	**0.471**	0.522	*<0.039*	**0.866**	**4.52**	**1.04**	0.314
MW-48A	9/26/2011	62.7	<0.019	0.41	0.0317	0.0333	<0.019	*<0.019*	<0.019	**0.276**	**0.197**	*<0.019*	*<0.019*	0.346	*<0.019*	<0.019	*<0.038*	*<0.038*	*<0.038*	<0.028	*<0.038*	*<0.038*	*<0.038*	<0.19	0.219	*<0.038*	**0.666**	**9.21**	**0.223**	<0.19
MW-48A	7/13/2015	450.0	<0.054	<0.054	<0.054	<0.054	<0.054	*<0.054*	<0.054	**0.147**	**0.296**	<0.054	*<0.20*	0.585	<0.20	<0.20	**0.0824**	*<0.040*	**0.0573**	<0.040	*<0.040*	**0.0716**	*<0.040*	**0.411**	0.469	*<0.040*	**0.92**	**7.89**	**1.03**	0.277
MW-48A	3/12/2018	0.0	<0.020	0.444	<0.099	<0.020	<0.020	<0.020	<0.020	**1.69**	**6.61**	<0.020	*<0.20*	0.393	<0.20	<0.020	**0.0457**	*<0.041*	*<0.041*	*<0.041*	*<0.041*	*<0.041*	*<0.041*	0.217	0.276	*<0.041*	**0.666**	**7.38**	**0.536**	<0.20
MW-48B	1/11/2011	419.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0068	<0.0048	*<0.0038*	0.0112	<0.0038	<0.0038	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	0.0087	*<0.00076*	0.0142	0.0509	0.0135	<0.0038
MW-48B	6/21/2011	0.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00097*	*<0.00097*	*<0.00097*	<0.00097	*<0.00097*	*<0.00097*	*<0.00097*	<0.00097	<0.00097	*<0.00097*	<0.00097	0.0023	0.001	<0.00097
MW-48B	9/26/2011	321.0	<0.0048	0.0527	0.0053	0.0052	<0.0048	<0.0048	<0.0048	0.0304	0.0181	<0.0048	*<0.024*	0.0253	<0.024	<0.024	*<0.0048*	*<0.0048*	*<0.0048*	<0.0048	*<0.0048*	*<0.0048*	*<0.0048*	<0.024	<0.024	*<0.0048*	**0.0552**	1.03	*<0.024*	<0.024
MW-48B	12/12/2011	37.4	<0.019	0.0696	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0741**	**0.0543**	*<0.019*	*<0.076*	0.076	*<0.076*	<0.076	*<0.015*	*<0.015*	*<0.015*	<0.015	*<0.015*	*<0.015*	*<0.015*	<0.076	<0.076	*<0.015*	**0.116**	**1.87**	*<0.076*	<0.076
MW-48B	4/2/2012	39.8	<0.0048	0.121	0.0093	0.0101	<0.0048	<0.0048	<0.0048	**0.0623**	**0.0181**	<0.0048	*<0.048*	0.0601	*<0.048*	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	**0.14**	**1.83**	*<0.048*	<0.048
MW-48B	7/9/2012	2.8	<0.0048	0.0393	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0141	0.0088	<0.0048	*<0.019*	<0.019	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	<0.019	*<0.0038*	**0.0313**	0.487	<0.019	<0.019
MW-48B	10/1/2012	4.8	<0.019	0.125	<0.019	<0.019	<0.019	<0.019	<0.019	**0.0769**	**0.0463**	*<0.019*	*<0.096*	<0.096	<0.096	<0.096	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.096	<0.019	*<0.096*	**0.143**	**2.35**	<0.096	<0.096
MW-48B	7/13/2015	92.0	<0.0048	0.0088	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0245	**0.0091**	<0.0048	<0.00096	0.0096	0.0015	0.0014	0.00026	<0.00019	<0.00019	<0.00019	<0.00019	**0.00021**	<0.00019	0.0014	0.009	<0.00019	0.0172	0.246	0.005	0.0013
MW-48B	3/12/2018	225.0	0.0179	0.0783	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0817	**0.0563**	<0.0049	*<0.097*	<0.097	*<0.097*	<0.097	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.097	<0.097	<0.019	0.155	**2.49**	<0.097	<0.097
MW-49A	8/16/2011	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-49A	12/14/2011	17.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-49A	4/3/2012	5.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0088	<0.00097	<0.00097
MW-49A	7/12/2012	16.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-49A	10/4/2012	58.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-49A	7/14/2015	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0011*	<0.0011	<0.0011	<0.0011	*<0.00022*	*<0.00022*	*<0.00022*	<0.00022	*<0.00022*	*<0.00022*	<0.00022	<0.0011	<0.0011	<0.00022	<0.0011	<0.0011	<0.0011	<0.0011
MW-49A	6/13/2017	Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-49B	8/16/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-49B	12/14/2011	51.3	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-49B	4/3/2012	23.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0058	<0.00095	<0.00095
MW-49B	7/12/2012	27.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-49B	10/4/2012	107.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-49B	7/14/2015	1000+	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0011*	<0.0011	<0.0011	<0.0011	*<0.0021*	*<0.0021*	*<0.0021*	<0.0021	<0.0021	*<0.0021*	*<0.0021*	<0.0021	<0.0011	<0.0011	<0.0021	<0.0011	<0.0011	<0.0011
MW-49B	6/13/2017	Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-49C	8/16/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-49C	12/14/2011	508.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-49C	4/3/2012	262.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0013	<0.00095	<0.00095
MW-49C	7/12/2012	622.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-49C	10/4/2012	288.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-49C	7/15/2015	--	Damaged / Abandoned	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-50A	8/17/2011	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-50A	12/15/2011	26.3	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-50A	4/5/2012	68.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-50A	7/9/2012	19.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	**0.00026**	<0.00019	<0.00019	0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50A	10/1/2012	137.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	**0.0022**	<0.00095	<0.00095
MW-50A	7/17/2015	1.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50A	3/26/2018	2.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50B	8/17/2011	562.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	<0.00098	<0.00098	<0.00098
MW-50B	12/15/2011	61.5	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50B	4/5/2012	<1000	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0017	<0.00096	<0.00096
MW-50B	7/9/2012	16.9	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50B	10/1/2012	127.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-50B	7/17/2015	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-50B	3/26/2018	1.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-51A	8/17/2011	155.0	<0.048	0.336	<0.048	<0.048	<0.048	*<0.048*	<0.048	0.115	0.0962	*<0.048*	**0.5**	0.147	<0.024	<0.024	*<0.0048*	*<0.0048*	*<0.0048*	<0.0048	*<0.0048*	*<0.0048*	*<0.0048*	<0.024	0.0894	*<0.0048*	**0.212**	**2.03**	**0.118**	<0.024
MW-51A	7/14/2015	--	DNAPL In Well - Did Not Sample						--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-51B	8/17/2011	197.0	<0.0048	0.006	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0199	0.0343	<0.0048	<0.00095	0.0724	0.0054	0.0019	<0.00019	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	<0.00019	*<0.0038*	0.0031	0.0344	*<0.0038*	**0.0937**	0.571	**0.0302**	0.0017
MW-51B	12/15/2011	127.0	<0.0048	0.006	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0662	0.0147	<0.0048	*<0.0038*	0.0236	*<0.0038*	*<0.0038*	*<0.00076*	*<0.00076*	*<0.00076*	<0.00076	*<0.00076*	*<0.00076*	*<0.00076*	<0.0038	0.0158	*<0.00076*	0.0241	0.125	0.0156	<0.0038
MW-51B	4/6/2012	68.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0083	<0.0048	<0.0048	<0.00096	0.0146	0.0011	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00099	0.0101	<0.00019	0.0135	0.0631	0.0106	<0.00096
MW-51B	7/12/2012	365.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0048	<0.0048	<0.0048	<0.00096	0.0078	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	0.0057	<0.00019	0.007	0.0263	0.0071	<0.00096
MW-51B	10/3/2012	18.8	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0058**	<0.0048	<0.0048	<0.00095	0.0092	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0064	<0.00019	0.0084	0.0542	0.0078	<0.00095
MW-51B	7/14/2015	17.3	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	*<0.0010*	0.0033	<0.0010	<0.0010	*<0.00021*	*<0.00021*	*<0.00021*	<0.00021	*<0.00021*	*<0.00021*	<0.00021	<0.0010	0.0031	*<0.00021*	<0.0010	0.0043	0.0049	<0.0010
MW-51B	3/16/2018	76.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00095	0.0033	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0029	<0.00019	<0.00095	0.0092	0.0051	<0.00095
MW-52A	8/17/2011	834.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	0.0011	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-52A	12/13/2011	700.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-52A	4/5/2012	385.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0042	<0.00095	<0.00095
MW-52A	7/12/2012	22.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	0.0013	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-52A	10/2/2012	322.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0012	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-52A	7/16/2015	65.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-52A	3/16/2018	381.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-53A	9/12/2011	>1000	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	<0.00099	<0.00099	<0.00099	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00099	<0.00099	<0.00020	<0.00099	0.0021	<0.00099	<0.00099
MW-53A	12/15/2011	92.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-53A	4/2/2012	0.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-53A	7/9/2012	60.4	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-53A	10/1/2012	>800	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-53A	7/13/2015	625.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-53A	3/15/2018	531.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	0.00019	<0.00095	0.0031	<0.00095	<0.00095
MW-53B	9/12/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-53B	12/15/2011	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-53B	4/2/2012	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-53B	7/9/2012	428.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0022	<0.00019	0.0038	**0.0213**	<0.00095	<0.00095
MW-53B	10/1/2012	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-53B	7/13/2015	352.0	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0011*	<0.0011	<0.0011	<0.0011	*<0.00021*	**0.00022**	**0.00027**	<0.00021	**0.00025**	**0.00024**	<0.00021	<0.0011	<0.0011	<0.00021	<0.0011	<0.0011	<0.0011	<0.0011
MW-53B	3/15/2018	428.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00019	<0.00095	0.0059	<0.00095	<0.00095
MW-54A	5/2/2012	--	<0.0048	0.25	0.0537	0.063	<0.048	*<0.048*	<0.048	**0.248**	**0.375**	*<0.048*	*<0.19*	0.617	*<0.19*	0.921	**0.0821**	**0.0396**	**0.0395**	<0.038	*<0.038*	**0.0646**	*<0.038*	**0.394**	0.445	*<0.038*	**0.899**	**9.39**	**0.899**	0.267
MW-54B	5/2/2012	499.0	<0.019	0.0535	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.0545**	**0.0369**	*<0.019*	*<0.048*	0.113	<0.048	<0.048	*<0.0095*	*<0.0095*	*<0.0095*	<0.0095	*<0.0095*	*<0.0095*	*<0.0095*	<0.048	<0.048	*<0.0095*	**0.107**	**1.26**	*<0.048*	<0.048
MW-54B	7/13/2012	36.3	<0.019	0.0835	0.0205	0.0256	<0.019	*<0.019*	<0.019	**0.0866**	**0.0523**	*<0.019*	*<0.019*	0.183	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.059	*<0.0038*	**0.194**	**2.95**	**0.0502**	<0.019
MW-54B	10/4/2012	188.0	<0.019	0.0416	<0.019	<0.019	<0.019	*<0.019*	<0.019	**0.0926**	**0.0707**	*<0.019*	*<0.048*	0.187	<0.048	<0.048	*<0.0096*	*<0.0096*	*<0.0096*	<0.0096	*<0.0096*	*<0.0096*	*<0.0096*	<0.048	<0.048	*<0.0096*	**0.168**	**3.02**	*<0.048*	<0.048
MW-54B	7/16/2015	>1000	<0.0050	0.0065	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0658**	**0.0491**	<0.0050	*<0.0010*	0.152	0.0014	0.0025	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	0.0035	0.0635	<0.00020	**0.143**	**1.02**	**0.0512**	0.002
MW-54B	4/9/2018	203.0	<0.024	0.0429	<0.024	<0.024	<0.024	<0.024	<0.024	**0.0672**	**0.0559**	<0.024	<0.00097	0.214	<0.0097	<0.0097	*<0.0019*	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0097	0.061	<0.0019	**0.0912**	**1.35**	**0.0563**	<0.0097
MW-55A	5/2/2012	>1000	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0097	<0.00097	0.0011	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0014	0.0022	<0.00019	<0.00097	<0.00097	<0.00097	<0.00097
MW-55A	7/10/2012	739.0	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00095	0.0116	<0.00095	0.0026	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0017	0.0087	<0.00019	0.0105	0.0377	0.0111	<0.00095
MW-55A	10/3/2012	46.2	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.00095	0.0037	<0.00095	<0.00019	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	0.0023	<0.00019	<0.00095	0.0074	0.0016	<0.00095
MW-55A	7/15/2015	8.5	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.00094	0.00096	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	0.0011	<0.00019	<0.00094	0.0038	0.0025	<0.00094
MW-55A	3/13/2018	7.7	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	<0.00097	<0.00097	*<0.00019*	<0.00097	0.0017	<0.00097	<0.00097
MW-55B	5/2/2012	509.0	<0.048	0.345	0.179	0.181	<0.048	*<0.048*	<0.048	**0.113**	**0.058**	*<0.048*	*<0.095*	0.128	<0.095	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	**0.219**	**3.56**	*<0.095*	<0.095
MW-55B	7/10/2012	94.4	0.0852	0.683	0.29	0.353	0.0606	*<0.019*	<0.019	**0.141**	**0.0758**	*<0.019*	*<0.095*	0.185	<0.095	<0.095	*<0.019*	*<0.019*	*<0.019*	<0.019	*<0.019*	*<0.019*	*<0.019*	<0.095	<0.095	*<0.019*	**0.358**	**5.21**	*<0.095*	<0.095
MW-55B	10/3/2012	18.5	0.0318	**1.06**	0.531	0.633	0.102	*<0.019*	<0.019	**0.247**	**0.111**	*<0.019*	*<0.019*	0.175	<0.019	<0.019	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.019	0.0671	*<0.0038*	**0.346**	**8.48**	**0.034**	<0.019
MW-55B	7/16/2015	0.0	<0.020	**1.01**	0.195	0.105	<0.020	<0.020	<0.020	**0.208**	**0.109**	*<0.020*	*<0.039*	0.218	<0.039	<0.039	*<0.0078*	*<0.0078*	*<0.0078*	<0.0078	*<0.0078*	*<0.0078*	*<0.0078*	<0.039	0.0874	*<0.0078*	**0.357**	**7.16**	**0.0504**	<0.039
MW-55B	3/13/2018	10.1	<0.0049	0.164	0.0192	0.0081	<0.0049	<0.0049	<0.0049	**0.0645**	**0.0462**	0.0049	0.0049	0.0879	*0.0049*	*0.0049*	*<0.0098*	*<0.0098*	*<0.0098*	*<0.0098*	*<0.0098*	*<0.0098*	*<0.0098*	0.049	0.049	*<0.0098*	**0.146**	**1.83**	**0.049**	0.049

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-56A	5/2/2012	621.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0014	<0.00095	<0.00095
MW-56A	7/11/2012	24.6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095
MW-56A	10/2/2012	41.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095
MW-56A	7/15/2015	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-56A	3/28/2018	10.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0018	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.003	0.002	<0.00095
MW-56B	5/2/2012	>1000	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.016	<0.00096	<0.00096
MW-56B	7/11/2012	800.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0022	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	0.0013	0.0325	<0.00096	<0.00096
MW-56B	10/2/2012	17.4	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0055	<0.0049	<0.0049	<0.00097	0.0049	<0.00097	<0.00097	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	0.0025	0.0262	<0.00097	<0.00097
MW-56B	7/15/2015	0.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00099	0.0032	<0.00099	<0.00099	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	*<0.00020*	<0.00099	<0.00099	<0.00020	0.0015	0.0115	<0.0010	<0.0010
MW-56B	3/28/2018	6.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0261	<0.0048	<0.0048	<0.0019	0.0363	<0.0019	0.002	*<0.0038*	*<0.0038*	*<0.0038*	<0.0038	*<0.0038*	*<0.0038*	*<0.0038*	<0.0019	0.0048	<0.00038	0.0219	0.0955	0.0021	<0.0019
MW-OW1	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.01	**0.041**	*<0.010*	*<0.050*	0.067	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.0053	0.039	*<0.010*	<0.010	<0.010	0.019	<0.010
MW-OW1	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW1	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.0052	*<0.010*	*<0.050*	0.013	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW1	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW1	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	0.0055	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.0057	<0.010	<0.010
MW-OW1	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW1	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0143	**0.041**	<0.005	*<0.002*	0.0643	<0.002	0.0019	**0.00033**	**0.00029**	**0.00044**	< 0.00040	< *0.00040*	**0.0003**	< *0.00040*	0.0054	0.0333	0.00021	0.0039	0.0049	**0.0249**	0.0029
MW-OW1	10/30/2003	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	0.0058	**0.019**	<0.0053	*<0.0010*	0.0387	0.00067	0.00067	**0.00027**	**0.00023**	**0.00028**	<0.00020	0.00016	**0.00022**	<0.00020	0.0035	0.0158	0.00013	0.00039	0.0042	0.0013	0.0018
MW-OW1	2/17/2004	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0134	**0.038**	<0.0054	*<0.0022*	0.0744	.0011 J	0.0012 J	*< 0.00043*	*< 0.00043*	*< 0.00043*	< 0.00043	*< 0.00043*	*< 0.00043*	*< 0.00043*	0.0043	0.0312	*< 0.00043*	0.0039	0.0401	0.0086	0.0025
MW-OW1	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0176	**0.0272**	<0.0048	<0.00095	0.0557	0.00076 J	0.0012	**0.00032**	**0.00027**	**0.00034**	0.00014	0.00016 J	**0.00025 J**	<0.00019	0.0046	0.0257	0.00027	<0.00095	<0.00095	0.0075	0.003
MW-OW1	8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0015 J	<0.0048	<0.00095	0.0067	<0.00095	<0.00095	0.000077 J	<0.00019	0.000069 J	<0.00019	<0.00019	<0.00019	<0.00019	0.0014	0.00054 J	<0.00019	<0.00095	<0.00095	<0.00095	0.001
MW-OW1	7/24/2007	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	**0.0448**	<0.005	<0.0010	0.0717	0.00052 J	0.002	**0.00028**	**0.00021**	**0.00026**	0.00011 J	0.00015 J	**0.00021**	<0.00020	0.0065	0.0353	0.00014 J	0.0129	0.0435	0.0195	0.0051
MW-OW1	11/19/2008	8.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0156	**0.0441**	<0.0048	<0.00109	0.0936	<0.00109	0.0013 J	*<0.00038*	*<0.00038*	*<0.00038*	<0.00038	*<0.00038*	*<0.00038*	*<0.00038*	0.0033	0.038	<0.00038	0.0166	0.0831	0.0173	0.0014 J
MW-OW1	12/11/2009	32.1	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-OW1	11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0058	**0.0295**	<0.0048	<0.00096	0.0727	0.0015	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0024	0.0184	<0.00019	<0.00096	0.0123	<0.00096	<0.00096
MW-OW1	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	**0.0456**	**0.122**	<0.0048	<0.00096	0.212	0.0012	0.0028	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.101	<0.00019	0.973	0.0018	0.0081	0.0592	0.0039
MW-OW1	3/22/2018	13.9	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0089	<0.0048	<0.00095	0.0124	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	0.0015	0.0054	<0.00019	<0.00095	<0.00095	0.0018	<0.00095
MW-OW2	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.00075	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	12/28/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW2	8/11/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	0.00018	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	0.00068	<0.0010	<0.0010
MW-OW2	10/30/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-OW2	2/17/2004	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-OW2	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	0.0016	<0.00096	<0.00096
MW-OW2	8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	<0.00019	0.000061 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-OW2	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	**0.00021**	0.00017 J	**0.00028**	0.00014 J	0.00019 J	**0.00023**	<0.00020	0.00054 J	<0.00098	0.00017 J	<0.00098	0.00036 J	<0.00098	0.00058 J
MW-OW2	11/19/2008	9.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	<0.00098	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0015	<0.00098	<0.00098
MW-OW2	12/10/2009	68.2	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010
MW-OW2	11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-OW2	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-OW2	3/22/2018	3.2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	*<0.00019*	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-OW3	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW3	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW3	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW3	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.005	<0.010	*<0.010*	<0.010	<0.010	<0.010	0.0056
MW-OW3	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW3	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-OW3	8/11/2003	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	0.00064	**0.0012**	**0.0016**	**0.0024**	0.0009	**0.00069**	**0.0013**	0.00027	0.0019	<0.0010	**0.0012**	<0.0010	<0.0010	<0.0010	0.0019
MW-OW3	10/30/2003	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0010	<0.0010	0.0006	0.00034	**0.002**	**0.0025**	**0.0027**	0.0013	**0.0023**	**0.0022**	**0.00037**	0.0031	<0.0010	**0.0016**	<0.0010	<0.0010	0.00026	0.0033
MW-OW3	2/18/2004	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	0.0013	0.00067 J	**0.0035**	**0.0048**	**0.0051**	0.0027	**0.0041**	**0.0039**	**0.00071**	0.0052	<0.0010	**0.0032**	<0.0010	<0.0010	0.00034 J	0.0066
MW-OW3	9/9/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.00020*	*<0.00020*	<0.00020	<0.00020	*<0.00020*	*<0.00020*	<0.00020	0.00044	<0.0010	<0.00020	<0.0010	0.0011	<0.0010	0.00033
MW-OW3	8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0010	<0.0010	0.0006 J	<0.0010	**0.0014**	**0.0019**	**0.0021**	0.00098	**0.0015**	**0.0014**	0.00028	0.0017	<0.0010	**0.0013**	<0.0010	<0.0010	<0.0010	0.0024
MW-OW3	7/24/2007	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	*< 0.0099*	< 0.0099	0.00073 J	< 0.0099	**0.0030**	**0.0041**	**0.0042**	0.0025	**0.0031**	**0.0032**	**0.00073**	0.0037	< 0.00099	**0.0033**	< 0.00099	< 0.00099	< 0.00099	0.0056
MW-OW3	11/19/2008	11.1	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	0.000057 J	0.000065 J	0.000090 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	0.000055 J	<0.00097	0.001	<0.00097	<0.00097
MW-OW3	12/10/2009	37.5	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00021**	**0.00025**	**0.00041**	<0.00019	<0.00019	**0.00021**	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-OW3	11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.0012**	**0.0015**	**0.0017**	0.0011	**0.0012**	**0.0014**	0.00023	0.0019	<0.00095	**0.0014**	<0.00095	0.0039	<0.00095	0.0017
MW-OW3	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	**0.00035**	**0.0004**	**0.00043**	0.00024	**0.00035**	**0.00039**	<0.00019	<0.00096	<0.00096	0.00032	<0.00096	<0.00096	<0.00096	<0.00096
MW-OW3	3/22/2018	14.3	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
MW-P1	5/18/2000	--	NA	NA	*< 30*	NA	*< 30*	*< 30*	*< 30*	**95**	**580**	*< 30*	*< 150*	**650**	**60**	**190**	**210**	**100**	**110**	40	**96**	**160**	*< 30*	**780**	**650**	**42**	**780**	**2,400**	**1,600**	**620**
MW-P1	8/14/2000	--	NA	NA	< 1.0	NA	< 1.0	*< 1.0*	*< 1.0*	**1**	**3.7**	*< 1.0*	*<5.0*	**4.5**	**0.4**	1.2	**1.1**	**0.68**	**0.52**	0.41	**0.64**	**0.99**	*< 1.0*	**5.80**	**4.20**	**0.13**	**4.9**	**18**	**11**	**4.30**
MW-P1	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.092**	**0.15**	*<0.010*	*<0.050*	0.2	0.017	0.02	**0.016**	**0.0081**	**0.0088**	<0.010	**0.0069**	**0.011**	*<0.010*	0.075	0.13	*<0.010*	**0.14**	**1.4**	**0.19**	0.052
MW-P1	2/1/2001	--	NA	NA	<0.100	NA	<0.100	*<0.100*	*<0.100*	**1**	**5.2**	*<0.100*	*<0.500*	**6.1**	**0.62**	1.6	**1.9**	**0.97**	**0.99**	0.36	**0.84**	**1.4**	**0.2**	**7.10**	**5.90**	**0.41**	**6.3**	**16.00**	**14.00**	**5.70**
MW-P1	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.039	**0.06**	*<0.010*	*<0.050*	0.1	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.014	0.05	*<0.010*	0.012	0.025	**0.044**	0.01
MW-P1	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	**0.055**	**0.065**	*<0.010*	*<0.050*	0.1	0.0067	0.0089	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.03	0.067	*<0.010*	**0.043**	0.14	**0.11**	0.023
MW-P1	8/12/2003	--	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.107**	**0.141**	*<0.020*	*<0.004*	0.193	0.0111	0.0281	**0.0167**	**0.016**	**0.0213**	0.0073	**0.0065**	**0.0143**	**0.0019**	0.0743	0.133	**0.0093**	**0.0317**	0.26	**0.171**	0.0495
MW-P1	10/30/2003	--	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	**0.0527**	**0.0907**	<0.0055	*<0.0044*	0.121	0.006	0.0111	**0.0076**	**0.0057**	**0.0061**	0.0026	**0.0036**	**0.0061**	**0.00052**	0.0392	0.0793	**0.0032**	**0.0406**	0.194	**0.0963**	0.0231
MW-P1	2/18/2004	--	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**0.101**	**0.445**	*<0.020*	*<0.04*	0.637	0.0474	0.174	**0.178**	**0.0985**	**0.104**	0.0359	**0.0783**	**0.135**	**0.0088**	**0.795**	0.634	**0.0413**	**0.455**	1.05	**1.44**	0.543
MW-P1	9/10/2004	--	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.191**		*<0.1*	*<0.083*	1.04	0.072	0.304	**0.317**	**0.175**	**0.181**	0.0564	**0.12**	**0.204**	**0.0217**	**1.28**	1.07	**0.0805**	**0.677**	1.02	**2.16**	0.864
MW-P1	8/1/2006	--	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	< 0.0095	**0.116**	**0.222**	*< 0.0095*	*< 0.0095*	0.333	0.0119	0.0796	**0.061**	**0.0311**	**0.0283**	0.0104	**0.0264**	**0.0416**	**0.0031**	**0.258**	0.276	**0.0153**	**0.119**	0.16	**0.533**	0.181
MW-P1	7/24/2007	--	Well abandoned August 2006 in preparation for Creek Liner Installation in August 2007																											
MW-P2	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P2	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P2	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.02	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	**0.02**	*<0.010*	0.13	<0.010	*<0.010*	<0.010	<0.010	**0.026**	0.088
MW-P2	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.0058	<0.010	<0.010
MW-P2	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	0.0058	<0.010	<0.010
MW-P2	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P2	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P2	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P2	8/11/2003	--	<0.005	0.0488	0.0561	0.0711	0.0489	<0.005	<0.005	0.0142	**0.031**	<0.005	**0.0108**	0.0358	<0.010	0.0125	**0.0118**	**0.0069**	**0.0092**	0.0027	**0.0033**	**0.0085**	*<0.0020*	0.0568	0.0393	**0.0031**	**0.0453**	0.289	**0.109**	0.0318
MW-P2	10/30/2003	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	0.00067	<0.0010	<0.0010	**0.00032**	**0.00049**	**0.00043**	0.0003	**0.0003**	**0.00039**	<0.00020	0.00036	<0.0010	0.00029	<0.0010	0.0061	<0.0010	0.00078
MW-P2	2/17/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	**0.00016 J**	**0.00024**	**0.00021**	0.00017 J	0.00017 J	**0.00020 J**	<0.00020	<0.0010	<0.0010	0.00018 J	<0.0010	0.00054 J	<0.0010	0.00036 J
MW-P2	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00021**	**0.00029**	**0.00023**	0.00019	**0.0002**	**0.00023**	<0.00019	0.00036 J	<0.00095	0.00029	<0.00095	<0.00095	<0.00095	0.00068 J
MW-P2	8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	< 0.0095	< 0.0095	< 0.0095	0.000056 J	<0.00019	0.000077 J	<0.00109	*<0.00109*	*<0.00109*	<0.00019	< 0.0095	< 0.0095	0.000064 J	< 0.0095	< 0.0095	< 0.0095	< 0.0095
MW-P2	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	**0.00024**	**0.00041**	**0.00037**	0.00033	**0.00029**	**0.00031**	0.000071 J	0.00035 J	<0.00097	0.00034	<0.00097	<0.00097	<0.00097	<0.00097
MW-P2	11/20/2008	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.00083 J	<0.00098	<0.00098	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	<0.00098	<0.00020	<0.00098	0.0017	<0.00098	<0.00098
MW-P2	12/10/2009	573.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0013	<0.00096	<0.00096	**0.0005**	**0.00083**	**0.0015**	0.00059	**0.00047**	**0.00063**	<0.00019	<0.00096	<0.00096	**0.00065**	<0.00096	<0.00096	<0.00096	<0.00096
MW-P2	11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	0.0017	<0.00095	<0.00095
MW-P2	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-P2	3/26/2018	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00094	<0.00094	<0.00094	<0.00094	*<0.00019*	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00094	<0.00094	<0.00019	<0.00094	<0.00094	<0.00094	<0.00094
MW-P3	8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.058	<0.010	*<0.010*	<0.010	<0.010	<0.010	0.044
MW-P3	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P3	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P3	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P3	8/11/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	<0.0010	<0.0010	<0.0010	**0.00024**	**0.00042**	**0.00051**	0.00031	0.00017	**0.00029**	<0.00020	0.00043	<0.0010	0.00033	<0.0010	<0.0010	<0.0010	0.0004
MW-P3	10/30/2003	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0010	<0.0010	<0.0010	<0.0010	*<0.0021*	0.00014	0.00013	<0.00020	0.00011	0.00012	<0.00020	<0.0010	<0.0010	0.0001	<0.0010	<0.0010	<0.0010	<0.0010
MW-P3	2/17/2004	--	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	*<0.0010*	<0.0010	<0.0010	<0.0010	**0.00021**	**0.00031**	**0.00029**	0.00021	**0.00023**	**0.00026**	<0.00020	0.00035 J	<0.0010	0.00023	<0.0010	<0.0010	<0.0010	0.00039 J
MW-P3	9/9/2004	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	**0.00026**	**0.00035**	**0.00034**	0.00024	**0.00023**	**0.00027**	<0.00019	0.00055 J	<0.00097	0.00034	<0.00097	<0.00097	<0.00097	0.00053 J
MW-P3	8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	**0.00015 J**	**0.00023**	**0.00022**	0.00015 J	0.00017 J	0.00017 J	<0.00019	0.00025 J	<0.00095	0.00018 J	<0.00095	<0.00095	<0.00095	0.00025 J
MW-P3	7/24/2007	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0011 J	<0.0049	<0.0049	<0.00098	0.0015	<0.00098	<0.00098	**0.00025**	**0.00043**	**0.00043**	0.00032	**0.00034**	**0.00033**	0.000066 J	0.00044 J	0.00052 J	0.00033	<0.00098	<0.00098	<0.00098	0.00061J
MW-P3	11/19/2008	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	0.000049 J	0.000065 J	0.000087 J	0.000049 J	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	0.000054 J	<0.00096	<0.00096	<0.00096	<0.00096
MW-P3	12/10/2009	513.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	**0.00049**	**0.00075**	**0.001**	0.00036	**0.00032**	**0.00054**	<0.00019	<0.00097	<0.00097	0.00039	<0.00097	<0.00097	<0.00097	0.001
MW-P3	11/10/2011	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	<0.00097	<0.00097	<0.00097	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00097	<0.00097	<0.00019	<0.00097	0.0025	<0.00097	<0.00097
MW-P3	12/9/2011	--	Well Abandoned December 2011 in Preparation for Site Excavation																											
MW-P4	5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.0066	*<0.010*	*<0.050*	0.014	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.01	0.0054	*<0.010*	<0.010	<0.010	<0.010	0.0078
MW-P4	8/4/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.0065	*<0.010*	*<0.050*	0.015	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.0081	0.0059	*<0.010*	<0.010	<0.010	<0.010	0.0051
MW-P4	11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	0.0054	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P4	2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	0.01	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P4	6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.0051	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P4	12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.0056	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P4	8/11/2003	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0407	**0.0554**	<0.0051	<0.0010	0.118	0.0026	0.0069	**0.0035**	**0.0019**	**0.0026**	0.00074	**0.00074**	**0.0025**	0.00023	0.0322	0.0757	**0.00091**	0.0013	0.0834	**0.0269**	0.0151
MW-P4	10/30/2003	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0019	<0.0054	*<0.0010*	0.0046	0.00067	0.001	**0.0028**	**0.0029**	**0.0029**	0.0013	**0.0022**	**0.0028**	**0.00036**	0.0082	0.0024	**0.0016**	<0.0010	<0.0010	<0.0010	0.0049
MW-P4	2/18/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	0.0015 J	<0.0051	<0.0010	0.0092	0.00072 J	0.00093 J	**0.0014**	**0.0016**	**0.0018**	0.00083	**0.0011**	**0.0015**	0.00019 J	0.0064	0.006	**0.00093**	<0.0010	0.0011	0.00051 J	0.0034
MW-P4	9/9/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.0136	0.0132	<0.0048	<0.00095	0.0205	0.001	0.0016	**0.0025**	**0.0022**	**0.0025**	0.0011	**0.0014**	**0.0021**	**0.00032**	0.0098	0.0129	**0.0013**	<0.00095	0.0318	0.0029	0.0058
MW-P4	8/1/2006	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0038 J	0.0023 J	<0.005	<0.0010	0.0239	0.00068 J	0.00064 J	**0.00056**	**0.0006**	**0.0006**	0.00026	**0.00044**	**0.00059**	0.000061 J	0.0054	0.0113	0.00033	<0.0010	<0.0010	<0.0010	0.0021
MW-P4	7/24/2007	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0046	0.00054 J	0.00078 J	**0.0032**	**0.0038**	**0.0042**	0.0019	**0.0026**	**0.0035**	**0.00058**	0.0077	0.0026	**0.0023**	<0.00096	0.00072 J	0.00092 J	0.0064
MW-P4	11/19/2008	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0024	<0.00097	<0.00097	**0.00078**	**0.001**	**0.0013**	0.00056	**0.00045**	**0.00056**	0.00015 J	0.0029	<0.00097	**0.00068**	<0.00097	<0.00097	<0.00097	0.0016
MW-P4	12/9/2009	393.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00097	0.0045	<0.00097	<0.00097	**0.0015**	**0.0019**	**0.0029**	0.00079	**0.001**	**0.0015**	0.00019	0.004	<0.00097	**0.00095**	<0.00097	<0.00097	<0.00097	0.0034
MW-P4	11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0025	<0.00096	<0.00096	<0.00019	<0.00019	0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0027	<0.00096	<0.00019	<0.00019	<0.00019	<0.00019	0.001
MW-P4	7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	0.0025	<0.00096	<0.00096	<0.00019	<0.00019	0.0021	<0.00019	0.00019	0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096
MW-P4	4/9/2018	--	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.00098	0.0159	<0.00098	<0.00098	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00098	0.0032	<0.00098	<0.00098	<0.00098	<0.00098	<0.00098

Table 5. Groundwater SVOC Results
Former Indiana Creosoting Company
Bloomington, Indiana

Chemical Name	Turbidity (NTU)	2,4-Dichlorophenol *	2,4-Dimethylphenol *	2-Methylphenol	3&4-Methylphenol (m,p-Cresol)	Phenol	2,4,6-Trichlorophenol	Benzyl Butyl Phthalate	Carbazole *	Dibenzofuran *	Bis(2-Ethylhexyl) Phthalate	Pentachlorophenol	Acenaphthene	Acenaphthylene *	Anthracene	Benzo(a)Anthracene	Benzo(a)Pyrene	Benzo(b)Fluoranthene	Benzo(g,h,i) Perylene ***	Benzo(k)Fluoranthene	Chrysene	Dibenz(a,h)Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)Pyrene	2-Methylnaphthalene *	Naphthalene	Phenanthrene *	Pyrene
Unit of Measure		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1996 VRP Tier II Residential	--	0.11 *	0.73 *	1.52	1.52	3.648	0.01	0.1	0.043 *	0.015 *	0.006	0.001	1.824	0.071 *	9.12	0.0001	0.0002	0.0002	***	0.0002	0.0002	0.0003	0.2432	1.216	0.0004	0.031 *	1.216	0.021 *	0.912
1996 VRP Tier II Non-Residential	--	0.31 *	2.0 *	5.11	5.11	12.26	0.26	20.44	0.14 *	0.2 *	0.2043	0.05	6.132	0.73 *	30.66	0.01	0.01	0.01	***	0.0392	0.3918	0.01	0.8176	4.088	0.01	0.41 *	4.088	0.31 *	3.066
Location ID **Sample Date**																													
MW-P5 5/18/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 8/4/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	0.007	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	<0.010	*<0.010*	*<0.050*	<0.010	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	<0.010	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P5 10/30/2003	--	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	*<0.0010*	0.0083	<0.0010	<0.0010	*<0.00020*	*<0.00020*	*<0.00020*	<0.00020	*<0.00020*	*<0.00020*	<0.00020	<0.00020	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	0.00037
MW-P5 2/17/2004	--	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0010	0.0073	<0.0010	<0.0010	*<0.00020*	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	0.00071 J	<0.00020	<0.0010	0.0029	<0.0010	<0.0010
MW-P5 11/19/2008	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	0.000058 J	<0.00019	0.000080 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096
MW-P5 12/9/2009	182.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0124	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-P5 11/10/2011	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-P5 7/16/2015	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00096	<0.00096	<0.00096	<0.00096	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096	<0.00096
MW-P5 3/22/2018	2	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	<0.00095	<0.00095	<0.00095	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00095	<0.00095	<0.00019	<0.00095	<0.00095	<0.00095	<0.00095
MW-P6 5/18/2000	--	NA	NA	0.0059	NA	<0.010	<0.010	<0.010	0.021	**0.046**	*<0.010*	*<0.050*	0.066	<0.010	0.0075	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	0.018	0.049	*<0.010*	**0.055**	0.51	**0.061**	0.013
MW-P6 8/14/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	0.022	**0.023**	*<0.010*	*<0.050*	0.046	0.014	<0.010	**0.011**	*<0.010*	*<0.010*	<0.010	*<0.010*	**0.01**	*<0.010*	0.048	0.035	*<0.010*	<0.010	<0.010	<0.010	0.044
MW-P6 11/13/2000	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.0051	*<0.010*	*<0.050*	0.0097	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	0.005	*<0.010*	<0.010	0.0068	<0.010	<0.010
MW-P6 2/1/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.0068	*<0.010*	*<0.050*	0.012	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	0.0069	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P6 6/21/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.01	*<0.010*	*<0.050*	0.019	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	0.0064	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P6 12/11/2001	--	NA	NA	<0.010	NA	<0.010	<0.010	<0.010	<0.010	0.01	*<0.010*	*<0.050*	0.018	<0.010	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	*<0.010*	*<0.010*	*<0.010*	<0.010	0.0096	*<0.010*	<0.010	<0.010	<0.010	<0.010
MW-P6 8/11/2003	--	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	0.0041	0.0089	<0.0057	*<0.0010*	0.0133	0.00061	0.0017	**0.00064**	**0.00067**	**0.00088**	0.00048	**0.00029**	**0.00066**	0.00012	0.0048	0.0088	**0.00058**	<0.0010	0.0015	0.00091	0.0026
MW-P6 10/30/2003	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0112	**0.0208**	<0.0052	<0.0010	0.027	0.0015	0.0037	**0.002**	**0.002**	**0.002**	0.001	**0.0013**	**0.0021**	0.00027	0.0117	0.0221	**0.0013**	<0.0010	0.00035	0.0011	0.0072
MW-P6 2/17/2004	--	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	0.0029 J	0.006	<0.0052	<0.0010	0.0111	0.00082 J	0.0015	**0.0013**	**0.0016**	**0.0017**	0.00096	**0.001**	**0.0016**	0.00021	0.0041	0.0068	**0.001**	<0.0010	0.00030 J	0.00092 J	0.0025
MW-P6 9/10/2004	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0091	<0.00095	0.00075	**0.0004**	**0.00034**	**0.00037**	0.00019	**0.00021**	**0.00038**	<0.00019	0.003	0.0058	0.00031	<0.00095	0.00052	0.0011	0.0016
MW-P6 8/1/2006	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.00095	0.0103	0.00049 J	0.0005 J	**0.00039**	**0.00046**	**0.00043**	0.00029	**0.00032**	**0.00044**	0.000058 J	0.0046	0.0084	0.00039	<0.00095	0.00031 J	<0.00095	0.0024
MW-P6 7/24/2007	--	Well abandoned August 2006 in preparation for Creek Liner Installation in August 2007																											
RW-1 7/15/2015	14.2	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	**0.232**	**0.15**	<0.023	<0.045	0.203	<0.045	<0.045	*<0.0091*	*<0.0091*	*<0.0091*	<0.0091	*<0.0091*	*<0.0091*	*<0.0091*	<0.0045	0.142	<0.0091	**0.185**	**2.68**	**0.198**	<0.045
RW-4 4/15/2010	75.1	<0.095	**1.38**	0.374	0.482	<0.095	<0.095	<0.095	**0.479**	**0.63**	<0.095	*<0.38*	0.886	*<0.38*	<0.38	**0.157**	**0.083**	**0.114**	<0.076	*<0.076*	**0.122**	*<0.076*	**0.881**	0.731	*<0.076*	**1.37**	**13.2**	**1.59**	0.566
RW-5 4/15/2010	364.0	<0.019	0.392	0.042	0.0359	<0.019	<0.019	<0.019	**0.312**	**0.294**	<0.019	*<0.19*	0.36	*<0.19*	<0.19	*<0.038*	*<0.038*	*<0.038*	<0.038	*<0.038*	*<0.038*	*<0.038*	<0.19	0.256	*<0.038*	**0.692**	**7.16**	**0.397**	<0.19
RW-6 4/15/2010	218.0	<0.019	0.606	0.229	0.267	0.021	<0.019	<0.019	**0.327**	**0.25**	<0.019	*<0.38*	0.381	*<0.38*	<0.38	*<0.38*	*<0.076*	*<0.076*	<0.076	*<0.076*	*<0.076*	*<0.076*	<0.38	<0.38	*<0.076*	**0.719**	**9.33**	*<0.38*	<0.38

0.68	BOLD - Concentration exceeds 1996 IDEM VRP Tier II Default Residential Closure Levels
770	BOLD/SHADE - Concentration exceeds 1996 IDEM VRP Tier II Default Non-residential (Industrial) Closure Levels
<	Analyte not detected above the laboratory's Run Detection Limit, displayed as ND (Non-detect) in laboratory analytical data packages.
<0.050	*Italics* - Analyte not detected above the laboratory's Run Detection Limit, however Detection Limit is above VRP Closure Levels
NA	Not Analyzed
*	Cleanup goals with an asterisk are taken form the January 31, 2006 IDEM RISC Technical Guide Appendix 1, since the Constituents did not have cleanup goals in the 1996 VRP Guidance Manual
***	Benzo(g,h,i)perylene does not have a cleanup goal in the 1996 VRP Guidance Manual or in the current IDEM RISC Technical Guide Appendix 1, dated January 26, 2006.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
P-1	8/4/2000	--	--	OBS	--	--	--	DNAPL at bottom
P-1	11/13/2000	--	--	0.00	--	--	--	Clear water, sheen present, odor
P-1	2/1/2001	--	--	OBS	--	--	--	sheen present, brown, odor, globules seen in bailer
P-1	12/11/2001	--	--	0.00	--	--	--	Cloudy, sheen present, odor
* Well abandoned 08/2006 for construction								
MW-3S	8/4/2000	--	--	OBS	--	--	--	Clear water, odor, some DNAPL sheen present
MW-3S	11/13/2000	--	--	OBS	--	--	--	DNAPL on bottom of bailer
MW-3S	2/1/2001	--	--	0.33	--	--	--	DNAPL on bottom of bailer
MW-3S	12/11/2001	--	--	0.33	--	--	--	
MW-3S	8/11/2003	--	--	0.50	--	--	--	DNAPL on bottom of bailer
MW-3S	9/9/2004	--	--	0.00	--	--	--	Cloudy, sheen present, odor
* Well abandoned 08/2006 for construction								
MW-3D	8/4/2000	--	--	OBS	--	--	--	DNAPL at bottom of bailer, Clear water, odor
MW-3D	11/13/2000	--	--	0.00	--	--	--	Grey, sheen present, odor
MW-3D	2/1/2001	--	--	0.00	--	--	--	Clear water, odor, sheen present
MW-3D	12/11/2001	--	--	0.00	--	--	--	Clear water, odor
MW-3D	8/11/2003	--	--	0.16	--	--	--	DNAPL on bottom of bailer
MW-3D	9/9/2004	--	--	OBS	--	--	--	Cloudy, sheen present, strong odor, trace DNAPL in bailer
* Well abandoned 08/2006 for construction								

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-12D	8/4/2000	--	--	NM	--	--	--	
MW-12D	11/13/2000	--	--	NM	--	--	--	
MW-12D	2/1/2001	--	--	NM	--	--	--	
MW-12D	6/21/2001	5.70	--	0.00	--	--	--	Cloudy, sheen present, odor
MW-12D	12/11/2001	5.52	--	OBS	--	--	--	DNAPL noted in well after purging 5 gallons of water
MW-12D	8/11/2003	6.12	--	0.00	--	--	--	Odor, DNAPL globules in bailer
MW-12D	10/29/2003	5.40	--	1.00	--	--	--	
MW-12D	2/17/2004	--	--	0.65	--	--	--	
MW-12D	9/9/2004	6.19	--	1.00	--	--	--	Clear water to yellow, sheen present present, odor
MW-12D	6/28/2007	--	--	NM	--	--	--	
MW-12D	7/5/2007	--	--	1.00	--	--	--	
MW-12D	7/24/2007	6.57	--	0.85	--	--	--	Red globules and sheen present in bailer
MW-12D	8/6/2007	--	--	1.50	--	--	--	
MW-12D	8/9/2007	--	--	NM	--	--	--	
MW-12D	10/15/2007	--	--	0.80	--	--	--	
MW-12D	10/17/2007	--	--	0.13	--	--	--	Clear water of DNAPL at 4.0 gal of purging; no drawdown in well
MW-12D	10/19/2007	--	--	0.05	--	--	--	
MW-12D	11/30/2007	6.04	--	0.04	--	--	--	
MW-12D	3/5/2008	4.43	--	0.20	--	--	--	Clear water, sheen present, odor remaining after 1.0 gal of DNAPL/water purged
MW-12D	4/10/2008	--	--	0.33	--	--	--	
MW-12D	9/9/2008	--	--	0.70	0.05	0.15	0.050	
MW-12D	9/12/2008	--	--	0.50	0.05	0.15	0.100	
MW-12D	9/12/2008	--	--	0.50	0.05	0.15	0.150	
MW-12D	9/18/2008	--	--	0.30	0.10	0.15	0.250	
MW-12D	9/24/2008	--	--	0.20	0.05	0.20	0.300	
MW-12D	9/26/2008	--	--	0.25	0.05	0.20	0.350	
MW-12D	9/30/2008	--	--	0.10	0.01	0.15	0.360	
MW-12D	10/1/2008	--	--	0.20	0.05	0.15	0.410	
MW-12D	10/2/2008	--	--	0.05	0.05	0.15	0.460	Recorded 0.05' DNAPL
MW-12D	10/3/2008	--	--	0.05	0.05	0.15	0.510	Recorded 0.05' DNAPL
MW-12D	10/14/2008	--	--	0.05	0.05	0.15	0.560	Recorded 0.05' DNAPL
MW-12D	10/17/2008	--	--	0.05	0.05	0.40	0.610	Recorded 0.05' DNAPL
MW-12D	10/21/2008	--	--	0.05	0.05	0.24	0.660	Recorded 0.05' DNAPL
MW-12D	10/24/2008	--	--	0.05	0.05	0.24	0.710	Recorded 0.05' DNAPL
MW-12D	10/28/2008	--	--	0.00	0.00	0.25	0.710	Trace DNAPL on outside of bailer
MW-12D	11/21/2008	--	--	0.05	0.05	0.24	0.760	Recorded 0.05' DNAPL
MW-12D	11/25/2008	--	--	0.00	0.00	0.25	0.760	Trace DNAPL on bailer
MW-12D	12/2/2008	--	--	0.00	0.00	0.25	0.760	Trace DNAPL on bailer

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-12D	12/4/2008	--	--	0.00	0.00	0.25	0.760	Trace DNAPL on bailer
MW-12D	12/9/2008	--	--	0.00	0.00	0.25	0.760	Trace DNAPL staining on bailer
MW-12D	12/18/2008	--	--	0.00	0.00	0.25	0.760	Slight DNAPL staining on bailer on bottom of bailer
MW-12D	12/30/2008	--	--	0.00	0.00	0.25	0.760	Slight DNAPL staining on bailer on bottom of bailer
MW-12D	1/2/2009	5.54	--	0.00	0.00	0.25	0.760	Slight DNAPL staining on bailer on bottom of bailer
MW-12D	1/7/2009	--	--	0.00	0.00	0.25	0.760	Slight DNAPL staining on bailer on bottom of bailer, ~1.0' of dark grey water in bailer, globules in bailer
MW-12D	1/14/2009	--	--	0.01	0.01	0.24	0.770	DNAPL staining on bailer, globules on bottom of bailer
MW-12D	1/20/2009	--	--	0.00	0.00	0.25	0.770	DNAPL staining on bailer bottom
MW-12D	1/23/2009	--	--	0.01	0.00	0.24	0.770	Trace DNAPL staining on bailer
MW-12D	1/26/2009	--	--	0.01	0.00	0.24	0.770	DNAPL staining on bailer
MW-12D	1/27/2009	--	--	0.00	0.00	0.25	0.770	DNAPL staining on bailer
MW-12D	1/28/2009	--	--	0.00	0.00	0.25	0.770	DNAPL staining on bailer
MW-12D	2/5/2009	--	--	0.00	0.00	0.25	0.770	DNAPL staining on bailer
MW-12D	3/3/2009	5.43	--	0.30	0.06	0.44	0.830	
MW-12D	3/11/2009	5.58	5.64	0.12	0.05	0.45	0.880	
MW-12D	3/17/2009	5.96	6.07	0.18	0.05	0.70	0.930	
MW-12D	3/25/2009	4.81	4.87	0.30	0.05	0.70	0.980	
MW-12D	3/31/2009	5.18	5.25	0.10	0.01	0.49	0.990	
MW-12D	4/20/2009	5.13	5.22	0.01	0.00	0.50	0.990	
MW-12D	4/29/2009	5.46	5.52	0.05	0.00	0.50	0.990	
MW-12D	5/6/2009	5.59	5.62	0.10	0.00	0.50	0.991	
MW-12D	5/11/2009	5.53	5.59	0.00	0.00	0.25	0.991	DNAPL staining on bailer
MW-12D	5/20/2009	5.40	5.45	0.05	0.01	0.24	1.001	
MW-12D	5/27/2009	5.81	5.85	0.01	0.01	0.24	1.011	
MW-12D	6/15/2009	5.47	5.53	0.10	0.01	0.24	1.021	
MW-12D	6/24/2009	5.26	5.57	0.18	0.04	0.46	1.061	
MW-12D	6/30/2009	5.93	6.07	0.15	0.05	0.95	1.111	
MW-12D	7/31/2009	5.80	5.90	0.03	0.01	0.24	1.121	
MW-12D	8/13/2009	6.12	6.17	0.15	0.02	0.48	1.141	Light grey in color
MW-12D	8/26/2009	6.68	6.76	0.25	0.10	0.40	1.241	
MW-12D	10/2/2009	5.49	5.56	0.30	0.10	0.24	1.341	
MW-12D	10/6/2009	6.03	6.10	0.15	0.03	0.47	1.371	
MW-12D	12/18/2009	5.62	5.67	0.20	0.02	0.48	1.391	
MW-12D	1/26/2010	5.33	5.38	0.20	0.04	0.71	1.431	
MW-12D	2/3/2010	6.20	6.28	0.20	0.05	0.70	1.481	
MW-12D	2/22/2010	5.38	9.54	0.20	0.05	0.70	1.531	

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-12D	3/1/2010	5.92	6.01	0.20	0.05	0.70	1.581	
MW-12D	3/9/2010	6.10	6.16	0.20	0.03	0.72	1.611	
MW-12D	4/16/2010	6.03	6.11	0.33	0.04	0.71	1.651	
MW-12D	6/1/2010	6.08	6.12	0.33	0.04	0.71	1.691	
MW-12D	7/6/2010	6.56	6.64	0.25	0.05	0.95	1.741	
MW-12D	8/3/2010	6.86	6.93	0.01	0.01	0.49	1.751	
MW-12D	8/10/2010	7.06	7.06	0.00	0.00	0.25	1.751	DNAPL staining on bailer
MW-12D	8/30/2010	7.21	--	0.05	--	NB	1.751	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-12D	2/18/2011	6.20	--	1.25	--	NB	1.751	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-12D	2/22/2011	4.73	--	1.81	0.21	0.55	1.956	
MW-12D	3/4/2011	5.28	--	0.20	0.02	0.48	1.976	
MW-12D	4/4/2011	4.59	--	0.00	0.00	0.25	1.976	DNAPL staining on bailer
MW-12D	4/12/2011	4.59	--	0.70	0.15	0.35	2.126	
MW-12D	4/19/2011	4.55	--	0.10	0.00	0.08	2.126	0.5' DNAPL on outside of bailer; Bottom at 19.92'
MW-12D	4/25/2011	4.12	--	0.50	0.05	0.45	2.176	
MW-12D	5/9/2011	5.50	--	0.25	0.02	0.23	2.196	
MW-12D	5/18/2011	5.73	--	0.20	0.02	0.23	2.216	Bottom at 19.88'
MW-12D	6/6/2011	6.28	--	0.60	--	NB	2.216	Bottom at 19.88'; Measured for DNAPL with tape
MW-12D	6/7/2011	6.27	--	0.60	0.05	0.20	2.266	
MW-12D	6/16/2011	--	--	0.30	0.03	0.22	2.296	
MW-12D	6/20/2011	5.44	--	0.20	0.01	0.24	2.306	
MW-12D	6/27/2011	4.72	--	0.40	0.01	0.24	2.316	
MW-12D	7/8/2011	--	--	0.20	0.02	0.25	2.336	
MW-12D	7/13/2011	6.60	--	0.50	0.05	0.11	2.384	
MW-12D	7/18/2011	6.73	--	0.20	0.0025	0.2475	2.387	
MW-12D	7/25/2011	6.50	--	0.20	0.0025	0.2475	2.389	
MW-12D	8/5/2011	6.93	--	0.04	0.003	0.247	2.392	
MW-12D	8/24/2011	6.75	--	0.20	0.0025	0.2475	2.395	
MW-12D	10/6/2011	6.60	--	0.00	0.0000	0.2500	2.395	
MW-12D	11/8/2011	6.06	--	0.00	0.0000	0.2500	2.395	DNAPL staining on bailer
MW-12D	6/5/2012	--	--	1.15'	--	NB	2.395	Bottom at 20.02'
MW-12D	11/14/2012	--	--	1.20	--	NB	2.395	
MW-12D	1/9/2013	--	--	1.60	--	NB	2.395	Bottom at 20.00'
MW-12D	4/18/2013	--	--	1.80	--	NB	2.395	
MW-12D	8/23/2013	--	--	2.70	--	NB	2.395	Bottom at 20.00'
MW-12D	4/16/2014	--	--	3.20	0.0000	0.0000	2.395	Bottom at 20.0'
MW-12D	12/29/2014	--	--	3.20	0.0000	0.0000	2.395	Bottom at 20.40'
MW-12D	3/4/2015	--	--	3.40	0.0000	0.0000	2.395	Bottom at 20.40'
MW-12D	5/19/2015	--	--	2.50	0.0000	0.0000	2.395	Bottom at 20.20'
MW-12D	7/13/2015	--	--	3.70	0.0000	0.0000	2.395	

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-12D	1/6/2016	--	--	3.25	0.0000	0.0000	2.395	Bottom at 20.20'
MW-12D	2/19/2016	--	--	3.75	0.0000	0.0000	2.395	Bottom at 20.20'
MW-12D	6/14/2016	--	--	3.20	0.0000	0.0000	2.395	Bottom at 20.25'
MW-12D	6/29/2016	--	--	--	0.5400	0.7100	2.935	Bail
MW-12D	9/9/2016	--	--	1.20	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	10/21/2016	--	--	1.40	0.0000	0.0000	2.935	Bottom at 19.40'
MW-12D	12/2/2016	--	--	1.40	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	2/24/2017	--	--	1.80	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	4/21/2017	--	--	1.85	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	7/21/2017	--	--	2.80	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	10/20/2017	--	--	2.80	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	2/27/2018	--	--	2.50	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	5/18/2018	--	--	2.65	0.0000	0.0000	2.935	Bottom at 19.70'
MW-12D	6/14/2018	--	--	--	0.6900	0.5600	3.625	Bail
MW-12D	8/10/2018	--	--	0.10	0.0000	0.0000	3.625	Bottom at 19.70'
MW-12D	11/19/2018	--	--	0.05	0.0000	0.0000	3.625	Bottom at 17.20'; did not reach bottom

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-14D	8/4/2000	--	--	NM	--	--	--	
MW-14D	11/13/2000	--	--	NM	--	--	--	
MW-14D	2/1/2001	--	--	NM	--	--	--	
MW-14D	6/21/2001	--	--	NM	--	--	--	
MW-14D	12/11/2001	--	--	NM	--	--	--	
MW-14D	8/11/2003	7.00	--	N OBS	--	--	--	Cloudy, odor
MW-14D	10/29/2003	6.20	--	NM	--	--	--	
MW-14D	2/17/2004	--	--	0.01	--	--	--	
MW-14D	9/9/2004	6.99	--	N OBS	--	--	--	Clear water, odor
MW-14D	6/28/2007	--	--	NM	--	--	--	
MW-14D	7/5/2007	--	--	0.79	--	--	--	
MW-14D	7/24/2007	5.73	--	0.01	--	--	--	Odor, slight black floculants seen in bailer
MW-14D	8/6/2007	--	--	0.05	--	--	--	
MW-14D	8/9/2007	--	--	NM	--	--	--	
MW-14D	10/15/2007	--	--	1.00	--	--	--	
MW-14D	10/17/2007	--	--	NM	--	--	--	
MW-14D	10/19/2007	--	--	0.50	--	--	--	Clear water of DNAPL after purging 3.0 gallons
MW-14D	11/30/2007	6.81	--	0.90	--	--	--	
MW-14D	3/5/2008	5.17	--	0.00	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-14D	4/10/2008	--	--	0.05	--	--	--	
MW-14D	9/9/2008	--	--	0.30	0.05	0.15	0.05	
MW-14D	9/12/2008	--	--	0.20	0.05	0.15	0.10	Water in bailer was pink in color due to tracer study
MW-14D	9/18/2008	--	--	0.20	0.10	0.15	0.20	
MW-14D	9/24/2008	--	--	0.15	0.05	>0.15	0.25	
MW-14D	9/26/2008	--	--	0.10	0.01	0.24	0.26	
MW-14D	9/26/2008	--	--	0.10	0.01	0.24	0.27	
MW-14D	10/1/2008	--	--	0.10	0.05	0.15	0.32	
MW-14D	10/2/2008	--	--	0.10	0.05	0.15	0.37	Water in bailer was pink in color due to tracer study
MW-14D	10/3/2008	--	--	0.10	0.05	0.15	0.42	Water in bailer was pink in color due to tracer study
MW-14D	10/14/2008	--	--	0.10	0.05	0.15	0.47	
MW-14D	10/17/2008	--	--	0.25	0.05	0.40	0.52	
MW-14D	10/21/2008	--	--	0.05	0.05	0.24	0.57	Recorded 0.05' DNAPL
MW-14D	10/24/2008	--	--	0.05	0.05	0.24	0.62	Recorded 0.05' DNAPL
MW-14D	10/27/2008	--	--	0.05	0.05	0.24	0.67	water in bailer was pink in color due to tracer study; recorded 0.05' DNAPL
MW-14D	11/21/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer, water color pinkish due to tracer study
MW-14D	11/25/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer, water color pinkish due to tracer study
MW-14D	12/2/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer, water color pinkish due to tracer study
MW-14D	12/4/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer, water color pinkish due to tracer study

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-14D	12/9/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer, water color pinkish due to tracer study
MW-14D	12/18/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer
MW-14D	12/30/2008	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer
MW-14D	1/2/2009	6.09	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer
MW-14D	1/7/2009	--	--	0.00	0.00	0.25	0.67	DNAPL staining on the bottom outside of bailer
MW-14D	1/14/2009	--	--	0.00	0.00	0.25	0.67	DNAPL staining on bailer, few globules on bottom of bailer
MW-14D	1/20/2009	--	--	0.00	0.00	0.25	0.67	Slight DNAPL staining on bailer bottom
MW-14D	1/23/2009	--	--	0.00	0.00	0.25	0.67	DNAPL on bailer, odor
MW-14D	1/26/2009	--	--	0.01	0.00	0.25	0.67	DNAPL staining on bailer
MW-14D	1/27/2009	--	--	0.00	0.00	0.25	0.67	Slight DNAPL staining on outside of bailer
MW-14D	1/28/2009	--	--	0.00	0.00	0.25	0.67	DNAPL staining on bailer
MW-14D	2/5/2009	--	--	0.00	0.00	0.25	0.67	DNAPL staining on bailer
MW-14D	3/3/2009	6.15	--	0.05	0.01	0.49	0.68	
MW-14D	3/11/2009	6.02	7.24	0.00	0.00	0.25	0.68	Slight DNAPL staining on outside of bailer
MW-14D	3/17/2009	6.91	7.85	0.00	0.00	0.25	0.68	Slight DNAPL staining on outside of bailer
MW-14D	3/25/2009	5.49	7.81	0.05	0.01	0.75	0.69	
MW-14D	3/31/2009	5.75	6.82	0.00	0.00	0.25	0.69	DNAPL staining on bailer
MW-14D	4/20/2009	5.75	7.18	0.00	0.00	0.25	0.69	
MW-14D	4/29/2009	6.04	7.44	0.00	0.00	0.25	0.69	Slight DNAPL staining on bailer
MW-14D	5/6/2009	NM	7.82	0.00	0.00	0.25	0.69	Slight DNAPL staining on bailer, initial DTW recorded incorrectly
MW-14D	5/11/2009	6.11	7.51	0.00	0.00	0.25	0.69	
MW-14D	5/20/2009	5.99	7.35	0.00	0.00	0.25	0.69	DNAPL staining on bailer
MW-14D	5/27/2009	7.76	8.35	0.00	0.00	0.25	0.69	DNAPL staining on bailer
MW-14D	6/15/2009	6.01	7.45	0.00	0.00	0.25	0.69	DNAPL staining on bailer
MW-14D	6/24/2009	5.74	8.27	0.00	0.00	0.25	0.69	Slight DNAPL staining on bailer
MW-14D	6/30/3009	6.11	8.47	0.00	0.00	0.25	0.69	Slight DNAPL staining on bailer
MW-14D	7/31/2009	6.10	7.54	0.00	0.00	0.25	0.69	
MW-14D	8/13/2009	6.32	7.85	0.05	0.01	0.24	0.70	DNAPL staining on bailer
MW-14D	8/26/2009	7.31	8.70	0.01	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	10/2/2009	5.89	7.36	0.00	0.00	0.25	0.70	
MW-14D	10/6/2009	6.22	7.78	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	12/18/2009	6.11	7.51	0.00	0.00	0.25	0.70	DNAPL staining on bailer, few DNAPL globules present in bottom of bailer
MW-14D	1/26/2010	5.50	7.07	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	2/3/2010	6.33	7.82	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	3/1/2010	6.07	7.57	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	4/16/2010	6.01	7.60	0.00	0.00	0.25	0.70	DNAPL staining on bailer, few DNAPL globules present in bottom of bailer
MW-14D	8/3/2010	7.40	-	0.00	0.00	0.25	0.70	Silight DNAPL staining on bailer
MW-14D	8/10/2010	7.72	9.28	0.00	0.00	0.25	0.70	DNAPL staining on bailer

Notes:
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DTW = depth to water, NB = not bailed, NM = not measured.

Table 6. DNAPL Recovery Data
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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-14D	8/30/2010	8.09	--	0.00	--	NB	0.70	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-14D	2/18/2011	6.55	--	0.00	--	NB	0.70	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-14D	2/22/2011	5.37	--	0.00	--	NB	0.70	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-14D	3/4/2011	5.94	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	3/28/2011	6.7	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	4/4/2011	6.89	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	4/12/2011	5.26	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	4/19/2011	5.24	--	0.00	0.00	0.08	0.70	DNAPL staining on bailer; Bottom at 20.05'
MW-14D	5/18/2011	6.18	--	0.00	--	NB	0.70	Bottom at 19.76'; Measured for DNAPL with tape
MW-14D	6/16/2011	--	--	0.00	--	NB	0.70	Measured for DNAPL with tape
MW-14D	6/27/2011	5.44	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	7/13/2011	7.18	--	0.00	0.00	0.08	0.70	DNAPL staining on bailer
MW-14D	7/18/2011	7.48	--	0.00	0.00	0.25	0.70	DNAPL globules in bailer
MW-14D	7/25/2011	7.33	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer and silt in bailer
MW-14D	8/4/2011	7.75	--	0.00	0.00	0.25	0.70	Slight DNAPL staining on bailer
MW-14D	8/24/2011	7.62	--	0.00	0.00	0.25	0.70	DNAPL staining on bailer
MW-14D	10/6/2011	7.36	--	0.00	0.00	0.25	0.70	Slight DNAPL staining on bailer
MW-14D	11/8/2011	6.45	--	0.00	0.00	0.25	0.70	Slight DNAPL staining on bailer

*Abandoned December 2010

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-15D	8/4/2000	NM	--	NM	--	--	--	
MW-15D	11/13/2000	NM	--	NM	--	--	--	
MW-15D	2/1/2001	NM	--	NM	--	--	--	
MW-15D	6/21/2001	NM	--	NM	--	--	--	Cloudy, odor
MW-15D	12/11/2001	NM	--	NM	--	--	--	
MW-15D	8/11/2003	6.46	--	0.00	--	--	--	
MW-15D	10/29/2003	5.04	--	OBS	--	--	--	Cloudy, odor
MW-15D	2/17/2004	NM	--	0.00	--	--	--	
MW-15D	9/9/2004	6.32	--	0.00	--	--	--	Odor, sheen present
MW-15D	6/28/2007	NM	--	NM	--	--	--	Trace DNAPL
MW-15D	7/24/2007	6.56	--	0.01	--	--	--	
MW-15D	8/6/2007	NM	--	0.01	--	--	--	Purged dry at 2.5 gal
MW-15D	8/9/2007	NM	--	NM	--	--	--	Not bailed
MW-15D	10/15/2007	NM	--	0.10	--	--	--	Purged dry @ 2.5 gal, well under pressure
MW-15D	10/17/2007	NM	--	0.00	--	--	--	
MW-15D	10/19/2007	NM	--	0.00	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-15D	11/30/2007	6.21	--	0.00	--	--	--	
MW-15D	3/5/2008	4.11	--	0.00	--	--	--	Recorded <0.01' DNAPL
MW-15D	4/10/2008	--	--	0.00	--	--	--	
MW-15D	9/24/2008	--	--	0.05	0.05	0.20	0.05	
MW-15D	9/26/2008	8.09	--	0.01	0.01	0.24	0.06	DNAPL staining on bailer bottom
MW-15D	9/30/2008	8.18	--	0.01	0.01	0.24	0.07	DNAPL staining on bailer bottom
MW-15D	10/1/2008	--	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom. Globules on WLI probe-tip.
MW-15D	10/2/2008	8.24	--	OBS	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	10/3/2008	8.29	--	OBS	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	10/14/2008	8.18	--	OBS	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	10/17/2008	8.18	--	0.00	0.00	0.25	0.07	
MW-15D	10/21/2008	8.31	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	10/24/2008	8.20	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	10/27/2008	8.19	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	11/21/2008	6.27	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	11/25/2008	6.14	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	12/2/2008	5.88	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	12/4/2008	5.87	--	0.00	0.00	0.25	0.07	
MW-15D	12/9/2008	5.35	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer bottom
MW-15D	12/18/2008	5.25	--	0.00	0.00	0.25	0.07	DNAPL staining on bottom of bailer, some globules on inside of bailer
MW-15D	12/30/2008	4.53	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	1/2/2009	4.83	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer bottom
MW-15D	1/7/2009	4.84	--	0.00	0.00	0.25	0.07	
MW-15D	1/14/2009	4.94	--	0.00	0.00	0.25	0.07	DNAPL on bailer, odor
MW-15D	1/20/2009	5.67	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer

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MW-15D	1/23/2009	4.73	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on inside of bailer
MW-15D	1/26/2009	5.94	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	1/27/2009	6.06'	--	0.01	0.00	0.25	0.07	DNAPL staining on bailer bottom
MW-15D	1/28/2009	5.90'	--	0.01	0.00	0.25	0.07	
MW-15D	2/5/2009	5.52	--	0.00	0.00	0.25	0.07	Clear water
MW-15D	3/3/2009	5.12	--	0.00	0.00	0.25	0.07	Very Slight DNAPL staining on bailer
MW-15D	3/11/2009	5.26	6.80	0.00	0.00	0.25	0.07	
MW-15D	3/17/2009	5.95	7.15	0.00	0.00	0.25	0.07	
MW-15D	3/25/2009	5.02	7.93	0.00	0.00	0.50	0.07	
MW-15D	3/31/2009	4.87	6.37	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	4/20/2009	4.70	6.21	0.00	0.00	0.25	0.07	
MW-15D	4/29/2009	4.96	6.48	0.00	0.00	0.25	0.07	
MW-15D	5/6/2009	5.05	NM	0.00	0.00	0.25	0.07	
MW-15D	5/11/2009	5.02	6.47	0.00	0.00	0.25	0.07	
MW-15D	5/20/2009	4.81	6.31	0.00	0.00	0.25	0.07	
MW-15D	5/20/2009	5.14	6.64	0.00	0.00	0.25	0.07	
MW-15D	6/15/2009	5.16	6.67	0.00	0.00	0.25	0.07	
MW-15D	6/24/2009	4.96	7.91	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	6/30/2009	5.60	8.25	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	8/13/2009	5.85	7.38	0.00	0.00	0.00	0.07	DNAPL staining on bailer
MW-15D	8/26/2009	7.41	8.88	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	10/2/2009	5.85	7.32	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	10/6/2009	5.97	7.53	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	12/18/2009	7.01	8.48	0.00	0.00	0.25	0.07	DNAPL staining on bailer, globules present in bailer
MW-15D	1/26/2010	5.54	6.98	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	2/3/2010	5.56	7.05	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	3/1/2010	5.21	6.68	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	4/16/2010	5.35	6.87	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	8/3/2010	7.85	9.35	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	8/10/2010	8.43	9.93	0.00	0.00	0.25	0.07	
MW-15D	8/30/2010	8.86	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-15D	2/18/2011	5.30	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-15D	2/22/2011	4.47	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-15D	3/4/2011	4.60	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	3/18/2011	5.29	--	0.00	0.00	0.25	0.07	
MW-15D	4/4/2011	5.57	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	4/12/2011	4.11	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	4/19/2011	4.33	--	0.00	0.00	0.08	0.07	DNAPL staining on bailer; Bottom at 19.75'
MW-15D	5/18/2011	4.78	--	0.00	--	NB	--	Bottom at 19.71'; Measured for DNAPL with tape

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-15D	6/16/2011	--	--	0.00	--	NB	--	Measured for DNAPL with tape
MW-15D	6/27/2011	6.64	--	0.00	0.00	0.25	0.07	
MW-15D	7/18/2011	7.42	--	0.10	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	7/25/2011	7.65	--	0.00	0.00	0.50	0.07	DNAPL staining on bailer
MW-15D	8/5/2011	7.83	--	0.00	0.00	0.25	0.07	
MW-15D	8/24/2011	8.48	--	0.00	0.00	0.25	0.07	DNAPL staining on bailer
MW-15D	10/6/2011	7.07	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	11/8/2011	5.35	--	0.00	0.00	0.25	0.07	Slight DNAPL staining on bailer
MW-15D	6/5/2012	--	--	0.05	--	NB	0.07	Bottom at 19.88'
MW-15D	11/14/2012	--	--	0.10	--	NB	0.07	
MW-15D	1/9/2013	--	--	0.10	--	NB	0.07	Bottom at 19.82'
MW-15D	4/18/2013	--	--	0.10	--	NB	0.07	
MW-15D	8/23/2013	--	--	0.00	--	NB	0.07	Bottom at 19.82'
MW-15D	4/16/2014	--	--	0.10	0.00	0.00	0.07	Bottom at 19.8'
MW-15D	12/292014	--	--	0.00	0.00	0.00	0.07	Trace on probe; bottom at 20.00'
MW-15D	3/4/2015	--	--	0.00	0.00	0.00	0.07	Trace on probe; bottom at 20.00'
MW-15D	5/19/2015	--	--	0.10	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	7/13/2015	--	--	0.00	0.00	0.00	0.07	
MW-15D	1/6/2016	--	--	0.10	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	2/19/2016	--	--	0.10	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	6/14/2016	--	--	0.10	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	9/9/2016	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	10/21/2016	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	12/2/2016	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	2/24/2017	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	4/21/2017	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	7/21/2017	--	--	0.05	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	10/20/2017	--	--	0.10	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	2/27/2018	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	5/18/2018	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	8/10/2018	--	--	0.00	0.00	0.00	0.07	Bottom at 20.00'
MW-15D	11/19/2018	--	--	0.05	0.00	0.00	0.07	Bottom at 20.00'

Notes:
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DTW = depth to water, NB = not bailed, NM = not measured.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-16D	8/4/2000	NM	--	NM	--	--	--	
MW-16D	11/13/2000	NM	--	NM	--	--	--	
MW-16D	2/1/2001	NM	--	NM	--	--	--	
MW-16D	6/21/2001	NM	--	NM	--	--	--	Grey water, odor
MW-16D	12/11/2001	NM	--	NM	--	--	--	
MW-16D	8/11/2003	5.33	--	0.00	--	--	--	
MW-16D	10/29/2003	4.30	--	NM	--	--	--	Purged dry
MW-16D	2/17/2004	NM	--	OBS	--	--	--	
MW-16D	9/9/2004	5.71	--	0.10	--	--	--	
MW-16D	6/28/2007	NM	--	NM	--	--	--	Red floculant present in bailer along with slight sheen
MW-16D	7/5/2007	NM	--	0.60	--	--	--	
MW-16D	7/24/2007	5.83	--	0.01	--	--	--	
MW-16D	8/6/2007	NM	--	0.01	--	--	--	Clear water
MW-16D	8/9/2007	NM	--	NM	--	--	--	Did not bail
MW-16D	10/15/2007	NM	--	0.00	--	--	--	Purged dry @ 2.75 gal, well under pressure
MW-16D	10/17/2007	NM	--	0.00	--	--	--	
MW-16D	10/19/2007	NM	--	0.00	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-16D	11/30/2007	5.31	--	0.00	--	--	--	
MW-16D	3/5/2008	3.77	--	0.00	--	--	--	
MW-16D	4/10/2008	NM	--	0.00	--	--	--	Recorded <0.01' DNAPL
MW-16D	9/18/2008	--	--	0.00	0.00	0.25	0.00	DNAPL on bailer
MW-16D	9/24/2008	--	--	0.05	0.05	0.20	0.05	DNAPL on bailer
MW-16D	9/26/2008	7.46	--	0.00	0.00	0.25	0.05	DNAPL on bailer
MW-16D	9/30/2008	7.62	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer bottom
MW-16D	10/1/2008	NM	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer bottom
MW-16D	10/2/2008	7.73	--	OBS	0.00	0.25	0.05	DNAPL staining on bailer bottom
MW-16D	10/3/2008	7.76	--	OBS	0.00	0.25	0.05	
MW-16D	10/14/2008	9.29	--	OBS	0.00	0.25	0.05	
MW-16D	10/17/2008	7.86	--	0.00	0.00	0.25	0.05	
MW-16D	10/21/2008	8.00	--	0.00	0.00	0.25	0.05	
MW-16D	10/24/2008	7.95	--	0.00	0.00	0.25	0.05	
MW-16D	10/27/2008	7.98	--	0.00	0.00	0.25	0.05	
MW-16D	11/21/2008	8.87	--	0.00	0.00	0.25	0.05	
MW-16D	11/25/2008	9.25	--	0.00	0.00	0.25	0.05	
MW-16D	12/2/2008	5.06	--	0.00	0.00	0.25	0.05	
MW-16D	12/4/2008	4.98	--	0.00	0.00	0.25	0.05	
MW-16D	12/9/2008	4.47	--	0.00	0.00	0.25	0.05	Clear water
MW-16D	12/18/2008	4.43	--	0.00	0.00	0.25	0.05	Odor
MW-16D	12/30/2008	3.94	--	0.00	0.00	0.25	0.05	Odor
MW-16D	1/2/2009	4.04	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	1/7/2009	3.99	--	0.00	0.00	0.25	0.05	
MW-16D	1/14/2009	4.11	--	0.00	0.00	0.25	0.05	Clear water, slight odor

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-16D	1/20/2009	5.84	--	0.00	0.00	0.25	0.05	Clear water
MW-16D	1/23/2009	4.78	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	1/26/2009	5.08	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	1/27/2009	5.26	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer bottom
MW-16D	1/28/2009	5.13	--	0.00	0.00	0.25	0.05	
MW-16D	2/5/2009	4.60	--	0.00	0.00	0.25	0.05	Clear water
MW-16D	3/3/2009	4.19	--	0.00	0.00	0.25	0.05	Clear water
MW-16D	3/11/2009	4.30	5.41	0.00	0.00	0.25	0.05	
MW-16D	3/17/2009	4.52	6.03	0.00	0.00	0.25	0.05	
MW-16D	3/25/2009	4.02	6.96	0.00	0.00	0.50	0.05	
MW-16D	3/31/2009	3.88	5.37	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	4/20/2009	3.74	5.26	0.00	0.00	0.25	0.05	
MW-16D	4/29/2009	3.93	5.42	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	5/6/2009	4.06	5.55	0.00	0.00	0.25	0.05	
MW-16D	5/11/2009	4.00	5.52	0.00	0.00	0.25	0.05	
MW-16D	5/20/2009	3.89	5.40	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	5/27/2009	4.05	5.56	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	6/15/2009	4.04	5.56	0.00	0.00	0.25	0.05	
MW-16D	6/24/2009	3.94	5.83	0.00	0.00	0.25	0.05	
MW-16D	6/30/2009	4.59	6.37	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	7/31/2009	4.42	5.94	0.00	0.00	0.25	0.05	Clear water
MW-16D	8/13/2009	4.69	6.23	0.00	0.00	0.00	0.05	DNAPL staining on bailer
MW-16D	8/26/2009	6.42	7.93	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	10/2/2009	4.87	6.41	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	10/6/2009	4.98	6.47	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	12/18/2009	4.25	5.76	0.00	0.00	0.25	0.05	DNAPL staining on bailer, globules present
MW-16D	1/26/2010	4.15	5.66	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	2/3/2010	4.31	5.87	0.00	0.00	,25	0.05	DNAPL staining on bailer
MW-16D	3/1/2010	4.07	5.53	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	4/16/2010	4.00	5.16	0.01	0.00	0.25	0.05	DNAPL staining on bailer and globules present
MW-16D	8/3/2010	6.99	8.51	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	8/10/2010	7.40	8.90	0.00	0.00	0.25	0.05	Slight DNAPL staining on bailer
MW-16D	8/30/2010	8.28	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-16D	2/18/2011	4.39	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-16D	2/22/2011	3.64	--	0.00	--	NB	--	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-16D	3/4/2011	3.67	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	3/18/2011	4.06	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	4/4/2011	4.30	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	4/12/2011	3.45	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-16D	4/19/2011	3.43	--	0.00	0.00	0.08	0.05	DNAPL staining on bailer; Bottom at 18.70'
MW-16D	5/18/2011	3.77	--	0.00	--	NB	--	Bottom at 18.70'; Measured for DNAPL with tape
MW-16D	6/16/2011	--	--	0.00	--	NB	--	Measured for DNAPL with tape
MW-16D	6/27/2011	3.72	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	7/13/2011	5.98	--	0.00	0.00	0.08	0.05	Odor
MW-16D	7/18/2011	6.50	--	0.00	0.00	0.25	0.05	Bottom at 18.75'
MW-16D	7/25/2011	6.95	--	0.00	0.00	0.25	0.05	
MW-16D	8/5/2011	7.53	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bottom of bailer
MW-16D	8/24/2011	8.17	--	0.00	0.00	0.25	0.05	Slight DNAPL staining on bottom of bailer
MW-16D	10/6/2011	6.05	--	0.00	0.00	0.25	0.05	
MW-16D	11/8/2011	4.49	--	0.00	0.00	0.25	0.05	DNAPL staining on bailer
MW-16D	6/5/2012	--	--	0.00	--	NB	0.05	Bottom at 18.83'
MW-16D	11/14/2012	--	--	0.00	--	NB	0.05	Sheen
MW-16D	1/9/2013	--	--	0.00	--	NB	0.05	Bottom at 18.78'
MW-16D	4/18/2013	--	--	0.00	--	NB	0.05	Globs
MW-16D	8/23/2013	--	--	0.00	--	NB	0.05	Bottom at 18.80'
MW-16D	4/16/2014	--	--	0.10	0.00	0.00	0.05	Bottom at 18.75'
MW-16D	12/31/2014	--	--	0.00	0.00	0.00	0.05	Trace on probe; bottom at 18.98'
MW-16D	3/4/2015	--	--	0.00	0.00	0.00	0.05	Trace on probe; bottom at 18.95'
MW-16D	5/19/2015	--	--	0.10	0.00	0.00	0.05	Bottom at 18.95'
MW-16D	7/13/2015	--	--	0.00	0.00	0.00	0.05	
MW-16D	1/6/2016	--	--	0.10	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	2/19/2016	--	--	0.10	0.00	0.00	0.05	
MW-16D	6/22/2016	--	--	0.10	0.00	0.00	0.05	Bottom at 19.40'
MW-16D	9/9/2016	--	--	0.00	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	10/21/2016	--	--	0.00	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	12/2/2016	--	--	0.05	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	2/24/2017	--	--	0.00	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	4/21/2017	--	--	0.05	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	7/21/2017	--	--	0.05	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	10/20/2017	--	--	0.10	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	2/27/2018	--	--	0.10	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	5/18/2018	--	--	0.10	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	8/10/2018	--	--	0.10	0.00	0.00	0.05	Bottom at 19.00'
MW-16D	11/19/2018	--	--	0.05	0.00	0.00	0.05	Bottom at 19.00'

Notes:
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DTW = depth to water, NB = not bailed, NM = not measured.

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-19D	8/4/2000	NM	--	NM	--	--	--	
MW-19D	11/13/2000	NM	--	NM	--	--	--	
MW-19D	2/1/2001	NM	--	NM	--	--	--	
MW-19D	6/21/2001	NM	--	NM	--	--	--	Not enough water to purge
MW-19D	12/11/2001	NM	--	NM	--	--	--	
MW-19D	8/11/2003	18.00	--	0.00	--	--	--	
MW-19D	10/29/2003	13.30	--	NM	--	--	--	Trace DNAPL
MW-19D	2/17/2004	NM	--	NM	--	--	--	
MW-19D	9/9/2004	8.41	--	0.01	--	--	--	
MW-19D	6/28/2007	NM	--	NM	--	--	--	Odor, black floculents present in bailer
MW-19D	7/5/2007	NM	--	1.04	--	--	--	
MW-19D	7/24/2007	7.11	--	0.00	--	--	--	
MW-19D	8/6/2007	NM	--	0.01	--	--	--	Clear water
MW-19D	8/9/2007	NM	--	NM	--	--	--	Did not bail
MW-19D	10/15/2007	NM	--	0.00	--	--	--	Purged dry @ 1.75 gal, grey
MW-19D	10/17/2007	NM	--	0.00	--	--	--	
MW-19D	10/19/2007	NM	--	0.00	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-19D	11/30/2007	15.88	--	0.00	--	--	--	
MW-19D	3/5/2008	9.71	--	0.00	--	--	--	
MW-19D	4/10/2008	--	--	0.00	0.00	0.25	0.00	
MW-19D	9/18/2008	--	--	0.00	0.00	0.25	0.00	
MW-19D	9/24/2008	--	--	0.00	0.00	0.25	0.00	
MW-19D	9/26/2008	11.33	--	0.00	0.00	0.25	0.00	
MW-19D	9/30/2008	12.49	--	0.00	0.00	0.25	0.00	Odor to water in bailer
MW-19D	10/1/2008		--	0.00	0.00	0.25	0.00	Small DNAPL globules in bailer; odor
MW-19D	10/2/2008	14.77	--	0.00	0.00	0.25	0.00	DNAPL staining on bailer bottom
MW-19D	10/3/2008	15.32	--	OBS	0.00	0.25	0.00	DNAPL staining on bailer bottom
MW-19D	10/14/2008	15.46	--	OBS	0.00	0.25	0.00	
MW-19D	10/17/2008	16.06	--	0.00	0.00	0.25	0.00	
MW-19D	10/21/2008	16.73	--	0.00	0.00	0.25	0.00	
MW-19D	10/24/2008	17.26	--	0.00	0.00	0.25	0.00	Trace bentonite in water at bottom of bailer
MW-19D	10/27/2008	17.69	--	0.00	0.00	0.25	0.00	
MW-19D	11/21/2008	19.03	--	0.00	0.00	0.25	0.00	
MW-19D	11/25/2008	18.79	--	0.00	0.00	0.25	0.00	
MW-19D	12/2/2008	18.50	--	0.00	0.00	0.25	0.00	
MW-19D	12/4/2008	18.69	--	0.00	0.00	0.25	0.00	
MW-19D	12/9/2008	18.50	--	0.00	0.00	0.25	0.00	Tan
MW-19D	12/18/2008	17.76	--	0.00	0.00	0.25	0.00	Slight odor
MW-19D	12/30/2008	16.54	--	0.00	0.00	0.25	0.00	Clear water, dark grey at bottom 1.0' of bailer
MW-19D	1/2/2009	17.12	--	0.00	0.00	0.25	0.00	Clear water, dark grey at bottom 1.0' of bailer
MW-19D	1/7/2009	17.20	--	0.00	0.00	0.25	0.00	
MW-19D	1/14/2009	17.39	--	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-19D	1/20/2009	17.65	--	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	1/23/2009	17.95	--	0.00	0.00	0.25	0.00	grey
MW-19D	1/26/2009	18.40'	--	0.00	0.00	0.25	0.00	grey
MW-19D	1/27/2009	18.29'	--	0.00	0.00	0.25	0.00	1' of grey water in bailer
MW-19D	1/28/2009	18.54'	--	0.00	0.00	0.25	0.00	
MW-19D	2/5/2009	18.08	--	0.00	0.00	0.25	0.00	Clear water
MW-19D	3/3/2009	16.31	--	0.00	0.00	0.25	0.00	Clear water
MW-19D	3/11/2009	16.76	17.92	0.00	0.00	0.25	0.00	
MW-19D	3/17/2009	17.23	18.41	0.00	0.00	0.25	0.00	
MW-19D	3/25/2009	16.80	18.24	0.00	0.00	0.50	0.00	
MW-19D	3/31/2009	17.62	18.27	0.00	0.00	0.25	0.00	
MW-19D	4/20/2009	16.74	17.41	0.00	0.00	0.25	0.00	
MW-19D	4/29/2009	16.29	17.23	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	5/6/2009	16.56	17.61	0.00	0.00	0.25	0.00	
MW-19D	5/11/2009	16.87	17.60	0.00	0.00	0.25	0.00	
MW-19D	5/20/2009	16.36	17.35	0.00	0.00	0.25	0.00	Clear water
MW-19D	5/27/2009	16.83	17.81	0.00	0.00	0.25	0.00	
MW-19D	6/15/2009	16.72	17.76	0.00	0.00	0.25	0.00	
MW-19D	6/24/2009	16.89	18.02	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	6/30/2009	16.58	18.31	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	7/31/2009	14.88	15.80	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	8/13/2009	14.93	15.98	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-19D	8/26/2009	15.22	16.19	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	10/2/2009	14.05	15.22	0.00	0.00	0.25	0.00	
MW-19D	10/6/2009	14.93	16.19	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-19D	12/18/2009	14.94	15.96	0.00	0.00	0.25	0.00	DNAPL staining on bailer, globules present
MW-19D	1/26/2010	14.22	15.31	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-19D	2/3/2010	14.86	15.82	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-19D	3/1/2010	14.72	15.81	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-19D	8/3/2010	9.54	11.01	0.00	0.00	0.25	0.00	
MW-19D	8/10/2010	10.84	12.31	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer
MW-19D	8/30/2010	11.67	--	0.00	--	NB	0.00	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-19D	2/18/2011	12.62	--	0.00	--	NB	0.00	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-19D	2/22/2011	12.44	--	0.00	--	NB	0.00	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-19D	7/8/2011	8.21	--	0.00	--	NB	0.00	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-19D	7/13/2011	8.34	--	0.10	0.00	0.08	0.00	
MW-19D	8/24/2011	8.79	--	0.00	0.00	0.08	0.00	Slight DNAPL staining on bailer and globules
MW-19D	10/6/2011	9.04	--	0.00	0.00	0.25	0.00	Slight DNAPL staining on bailer

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-19D	11/8/2011	9.91	--	0.00	0.00	0.25	0.00	
MW-19D	6/5/2012	--	--	0.00	--	NB	0.00	Bottom at 19.38'
MW-19D	11/14/2012	--	--	0.10	--	NB	0.00	
MW-19D	4/18/2013	--	--	0.10	--	NB	0.00	Globs
MW-19D	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 19.35'
MW-19D	6/14/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 19.5'
MW-19D	12/29/2014	--	--	0.00	0.00	0.00	0.00	Trace on probe; botttom at 19.80'
MW-19D	3/4/2015	--	--	0.00	0.00	0.00	0.00	Trace on probe; botttom at 19.80'
MW-19D	5/19/2015	--	--	0.05	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	1/6/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	2/19/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	6/22/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 19.52'
MW-19D	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	7/18/2017	--	--	0.05	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	10/20/2017	--	--	0.10	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	2/27/2018	--	--	0.10	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	5/18/2018	--	--	0.05	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	8/10/2018	--	--	0.05	0.00	0.00	0.00	Bottom at 19.50'
MW-19D	11/19/2018	--	--	0.05	0.00	0.00	0.00	Bottom at 19.50'

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-20D	8/4/2000	--	--	NM	--	--	--	
MW-20D	11/13/2000	--	--	NM	--	--	--	
MW-20D	2/1/2001	--	--	NM	--	--	--	
MW-20D	6/21/2001	--	--	NM	--	--	--	
MW-20D	12/11/2001	--	--	NM	--	--	--	
MW-20D	8/11/2003	--	--	NM	--	--	--	
MW-20D	10/29/2003	6.37		NM	--	--	--	Cloudy, sheen present, odor
MW-20D	2/17/2004	--	--	0.50	--	--	--	
MW-20D	9/9/2004	7.31		1.50	--	--	--	
MW-20D	6/28/2007	--	--	NM	--	--	--	Grey, odor, sheen
MW-20D	7/20/2007	--	--	0.75	--	--	--	
MW-20D	7/24/2007	7.20	--	0.09	--	--	--	
MW-20D	8/6/2007	--	--	0.30	--	--	--	Clear water of DNAPL at 1.5 gal, no drawdown
MW-20D	8/9/2007	--	--	NM	--	--	--	Clear water of DNAPL at 2.0 gal, no drawdown
MW-20D	10/15/2007	--	--	0.20	--	--	--	Clear water of DNAPL at 1.0 gal
MW-20D	10/17/2007	--	--	0.10	--	--	--	
MW-20D	10/19/2007	--	--	0.08	--	--	--	Clear water, sheen present, odor remaining after purge of 0.75 gal
MW-20D	11/30/2007	7.12	--	0.01	--	--	--	
MW-20D	3/5/2008	4.99	--	0.05	--	--	--	DNAPL/grey water
MW-20D	4/10/2008	--	--	0.33	--	--	--	DNAPL/grey water
MW-20D	9/8/2008	--	--	0.50	0.10	0.90	0.10	DNAPL/grey water
MW-20D	9/9/2008	--	--	0.80	0.05	0.15	0.15	DNAPL/grey water
MW-20D	9/10/2008	--	--	1.20	0.10	0.15	0.25	
MW-20D	9/12/2008	--	--	1.00	0.05	0.15	0.30	
MW-20D	9/16/2008	--	--	0.50	0.10	0.15	0.40	
MW-20D	9/18/2008	--	--	0.10	0.10	0.15	0.50	
MW-20D	9/24/2008	--	--	0.10	0.05	0.15	0.55	
MW-20D	9/26/2008	--	--	0.20	0.10	0.40	0.65	
MW-20D	9/30/2008	--	--	0.10	0.01	0.24	0.66	~ 1' of grey water in bailer
MW-20D	10/1/2008	--	--	0.10	0.05	0.15	0.71	~ 0.7' of grey water in bailer
MW-20D	10/2/2008	--	--	0.15	0.05	0.15	0.76	Recorded <0.01' DNAPL
MW-20D	10/3/2008	--	--	0.10	0.05	0.15	0.81	DNAPL staining on bailer on bottom of bailer
MW-20D	10/14/2008	--	--	0.05	0.05	0.15	0.86	DNAPL staining on bailer on bottom of bailer
MW-20D	10/17/2008	--	--	0.00	0.00	0.25	0.86	DNAPL staining on bailer on bottom of bailer
MW-20D	10/21/2008	--	--	0.05	0.05	0.24	0.91	DNAPL staining on bailer on bottom of bailer
MW-20D	10/24/2008	--	--	0.05	0.05	0.24	0.96	DNAPL staining on bailer on bottom of bailer
MW-20D	10/27/2008	--	--	0.00	0.00	0.25	0.96	DNAPL staining on bailer on bottom of bailer
MW-20D	11/21/2008	--	--	0.00	0.00	0.24	0.96	DNAPL staining on bailer on bottom of bailer
MW-20D	11/25/2008	--	--	0.05	0.05	0.24	1.01	DNAPL staining on bailer on bottom of bailer
MW-20D	12/2/2008	--	--	0.00	0.00	0.25	1.01	DNAPL staining on bailer on bottom of bailer
MW-20D	12/4/2008	--	--	0.00	0.00	0.25	1.01	Slight DNAPL staining on outside of bailer of bailer
MW-20D	12/9/2008	--	--	0.00	0.00	0.25	1.01	Slight DNAPL staining on outside of bailer of bailer

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-20D	12/18/2008	--	--	0.00	0.00	0.25	1.01	DNAPL staining on bailer on outside and bottom of bailer
MW-20D	12/30/2008	--	--	0.00	0.00	0.25	1.01	Slight DNAPL staining on outside of bailer and bottom of bailer
MW-20D	1/2/2009	6.20		0.00	0.00	0.25	1.01	DNAPL staining on bailer, 0.05' of globules, dark water
MW-20D	1/7/2009	--	--	0.00	0.00	0.25	1.01	
MW-20D	1/14/2009	--	--	0.05	0.00	0.25	1.01	
MW-20D	1/20/2009	--	--	0.00	0.00	0.25	1.01	DNAPL staining on bailer
MW-20D	1/23/2009	--	--	NM	0.00	0.25	1.01	DNAPL staining on bailer
MW-20D	1/26/2009	--	--	0.00	0.00	0.25	1.01	Slight DNAPL staining on bailer
MW-20D	1/27/2009	--	--	0.00	0.00	0.25	1.01	Black water with sheen present and globules
MW-20D	1/28/2009	--	--	0.00	0.00	0.25	1.01	
MW-20D	2/5/2009	--	--	0.00	0.00	0.25	1.01	Slight DNAPL staining on outside of bailer of bailer
MW-20D	3/3/2009	5.88	--	0.01	0.01	0.24	1.02	Slight DNAPL staining on bailer on bottom of bailer
MW-20D	3/11/2009	6.45	7.85	0.00	0.00	0.25	1.02	
MW-20D	3/17/2009	6.67	8.04	0.00	0.00	0.25	1.02	
MW-20D	3/25/2009	6.05	6.17	0.10	0.05	0.70	1.07	
MW-20D	3/31/2009	5.96	7.23	0.05	0.01	0.24	1.08	
MW-20D	4/20/2009	5.80	5.91	0.00	0.00	0.25	1.08	DNAPL staining on bailer
MW-20D	4/29/2009	6.20	9.38	0.10	0.00	0.75	1.08	Greyish black water
MW-20D	5/6/2009	6.18	6.21	0.00	0.00	0.25	1.08	Slight DNAPL staining on bailer
MW-20D	5/11/2009	6.18	7.55	0.00	0.00	0.25	1.08	Very Slight DNAPL staining on bailer
MW-20D	5/20/2009	5.94	7.19	0.00	0.00	0.25	1.08	Clear water
MW-20D	5/27/2009	6.56	7.80	0.00	0.00	0.25	1.08	Slight DNAPL staining on bailer
MW-20D	6/15/2009	6.23	7.57	0.00	0.00	0.25	1.08	
MW-20D	6/24/2009	5.76	7.32	0.00	0.00	0.25	1.08	Slight DNAPL staining on bailer
MW-20D	6/30/2009	6.84	8.31	0.00	0.00	0.25	1.08	
MW-20D	7/31/2009	6.43	7.69	0.00	0.00	0.25	1.08	
MW-20D	8/13/2009	6.97	8.29	0.02	0.01	0.49	1.09	Clear water
MW-20D	8/26/2009	7.59	8.81	0.00	0.00	0.25	1.09	DNAPL staining on bailer, Clear water
MW-20D	10/2/2009	7.05	8.34	0.00	0.00	0.25	1.09	Slight DNAPL staining on bailer
MW-20D	10/6/2009	7.11	8.37	0.00	0.00	0.25	1.09	Slight DNAPL staining on bailer
MW-20D	12/18/2009	6.21	7.65	0.00	0.00	0.25	1.09	DNAPL staining on bailer, DNAPL on bottom of bailer
MW-20D	1/26/2010	5.96	7.21	0.00	0.00	0.25	1.09	DNAPL staining on bailer
MW-20D	2/3/2010	7.60	7.79	0.00	0.00	0.25	1.09	DNAPL staining on bailer
MW-20D	3/1/2010	6.26	6.41	0.00	0.00	0.25	1.09	DNAPL staining on bailer
MW-20D	4/16/2010	6.33	7.68	0.00	0.00	0.25	1.09	Globules present; DNAPL staining on bailer
MW-20D	8/3/2010	7.60	8.72	0.05	0.01	0.24	1.10	
MW-20D	8/10/2010	7.62	8.82	0.00	0.00	0.25	1.10	DNAPL staining on bailer
MW-20D	8/30/2010	7.65	--	0.00	--	NB	1.10	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-20D	2/18/2011	6.71	--	0.68	--	NB	1.10	Recovery Program Temproarily suspended; Measured for DNAPL with tape
MW-20D	2/22/2011	5.48	--	0.75	--	NB	1.10	DNAPL level hard to decipher; Measured for DNAPL with tape

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-20D	3/4/2011	5.76	--	0.00	0.00	0.25	1.10	DNAPL staining on bailer
MW-20D	3/18/2011	6.58	--	0.00	0.00	0.25	1.10	DNAPL staining on bailer
MW-20D	4/4/2011	6.21	--	0.00	0.00	0.25	1.10	
MW-20D	4/12/2011	5.50	--	0.20	0.00	0.00	1.10	
MW-20D	4/19/2011	5.10	--	0.10	0.01	0.07	1.11	Bottom at 25.85'
MW-20D	5/18/2011	6.36	--	0.15	0.02	0.23	1.13	Bottom at 25.84'
MW-20D	6/6/2011	7.06	--	0.40	--	NB	1.13	Bottom at 25.84'; Measured for DNAPL with tape
MW-20D	6/7/2011	7.00	--	0.30	0.03	0.22	1.16	
MW-20D	6/20/2011	6.10	--	0.10	0.01	0.25	1.17	
MW-20D	6/27/2011	6.02	--	0.20	0.01	0.24	1.18	
MW-20D	7/8/2011	7.25	--	0.10	0.01	0.24	1.19	
MW-20D	7/13/2011	7.48	--	0.20	0.01	0.49	1.20	
MW-20D	7/18/2011	7.54	--	0.00	0.00	0.25	1.20	DNAPL staining on bailer
MW-20D	7/25/2011	7.46	--	0.20	0.00	0.25	1.20	
MW-20D	8/5/2011	7.63	--	0.00	0.00	0.25	1.20	
MW-20D	8/15/2011	7.53	--	0.10	0.00	0.43	1.20	
MW-20D	8/24/2011	7.64	--	0.10	0.0025	0.498	1.21	
MW-20D	9/6/2011	7.82	--	0.00	0.00	0.080	1.21	DNAPL staining on bailer
MW-20D	9/12/2011	7.82	--	0.00	0.00	0.25	1.21	DNAPL staining on bailer
MW-20D	9/19/2011	7.64	--	0.00	0.00	0.25	1.21	DNAPL staining on bailer
MW-20D	10/10/2011	7.68	--	0.01	0.00	0.25	1.21	DNAPL staining on bailer
MW-20D	10/24/2011	7.04	--	0.01	0.01	0.24	1.22	
MW-20D	11/8/2011	6.82	--	0.00	0.00	0.25	1.22	DNAPL staining on bailer
MW-20D	6/5/2012	--	--	0.20	--	NB	1.22	Bottom at 26.05'
MW-20D	11/14/2012	--	--	0.25	--	NB	1.22	
MW-20D	4/18/2013	--	--	0.10	--	NB	1.22	
MW-20D	8/23/2013	--	--	0.30	--	NB	1.22	Bottom at 26.05'
MW-20D	6/14/2014	--	--	0.10	0.00	0.00	1.22	Bottom at 26.0'
MW-20D	12/29/2014	--	--	0.10	0.00	0.00	1.22	Bottom at 26.45'
MW-20D	3/4/2015	--	--	0.10	0.00	0.00	1.22	Bottom at 26.45'
MW-20D	5/19/2015	--	--	0.10	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	1/6/2016	--	--	0.10	0.00	0.00	1.22	Bottom at 26.60'
MW-20D	2/19/2016	--	--	0.10	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	6/22/2016	--	--	0.10	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	9/9/2016	--	--	0.20	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	10/21/2016	--	--	0.20	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	12/2/2016	--	--	0.30	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	2/24/2017	--	--	0.20	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	4/21/2017	--	--	0.00	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	7/18/2017	--	--	0.25	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	10/20/2017	--	--	0.10	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	2/27/2018	--	--	0.30	0.00	0.00	1.22	Bottom at 26.20'

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-20D	5/18/2018	--	--	0.30	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	8/10/2018	--	--	0.10	0.00	0.00	1.22	Bottom at 26.20'
MW-20D	11/19/2018	--	--	0.30	0.00	0.00	1.22	Bottom at 26.20'

Notes:
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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-21D	8/4/2000	--	--	NM	--	--	--	
MW-21D	11/13/2000	--	--	NM	--	--	--	
MW-21D	2/1/2001	--	--	NM	--	--	--	
MW-21D	6/21/2001	--	--	NM	--	--	--	
MW-21D	12/11/2001	--	--	NM	--	--	--	
MW-21D	8/11/2003	--	--	NM	--	--	--	
MW-21D	10/29/2003	3.71	--	NM	--	--	--	Clear water, sheen present odor
MW-21D	2/17/2004	--	--	0.00	--	--	--	
MW-21D	9/9/2004	5.70	--	1.50	--	--	--	
MW-21D	6/28/2007	--	--	NM	--	--	--	Odor, sheen present
MW-21D	7/5/2007	--	--	1.04	--	--	--	
MW-21D	7/24/2007	4.55	--	0.60	--	--	--	
MW-21D	8/6/2007	--	--	2.50	--	--	--	Clear water of DNAPL at 6.0 gal, no drawdown, sheen present
MW-21D	8/9/2007	--	--	1.50	--	--	--	Clear water of DNAPL at 5.5 gal, no drawdown
MW-21D	10/15/2007	--	--	1.20	--	--	--	Clear water of DNAPL at 2.75 gal
MW-21D	10/17/2007	--	--	1.05	--	--	--	
MW-21D	10/19/2007	--	--	0.75	--	--	--	Trace DNAPL, sheen present, odor remaining after purge of 4.0 gal
MW-21D	11/30/2007	4.20	--	0.45	--	--	--	
MW-21D	3/5/2008	2.61	--	1.75	--	--	--	
MW-21D	4/10/2008	--	--	0.66	--	--	--	
MW-21D	9/5/2008	--	--	0.75	1.50	1.00	1.50	
MW-21D	9/5/2008	--	--	0.50	0.20	0.45	1.70	
MW-21D	9/5/2008	--	--	0.16	0.05	0.70	1.75	
MW-21D	9/8/2008	--	--	1.80	0.50	1.25	2.25	
MW-21D	9/9/2008	--	--	0.85	0.05	0.15	2.30	
MW-21D	9/10/2008	--	--	1.20	0.10	0.15	2.40	
MW-21D	9/12/2008	--	--	1.30	0.25	1.50	2.65	
MW-21D	9/16/2008	--	--	1.80	0.20	0.05	2.85	
MW-21D	9/18/2008	--	--	1.80	0.20	1.05	3.05	
MW-21D	9/24/2008	--	--	1.90	0.20	0.05	3.25	
MW-21D	9/26/2008	--	--	2.50	0.35	0.80	3.60	
MW-21D	9/26/2008	--	--	0.20	0.10	0.40	3.70	
MW-21D	9/30/2008	--	--	0.60	0.20	1.05	3.90	
MW-21D	10/1/2008	--	--	1.20	0.10	0.15	4.00	
MW-21D	10/2/2008	--	--	0.80	0.10	0.90	4.10	
MW-21D	10/3/2008	--	--	0.80	0.10	0.65	4.20	
MW-21D	10/14/2008	--	--	0.30	0.20	1.80	4.40	
MW-21D	10/17/2008	--	--	2.60	0.50	1.50	4.90	
MW-21D	10/17/2008	--	--	0.10	0.05	0.40	4.95	
MW-21D	10/21/2008	--	--	2.00	0.25	1.00	5.20	
MW-21D	10/24/2008	--	--	1.30	0.13	0.87	5.33	
MW-21D	10/27/2008	--	--	0.50	0.10	0.15	5.43	

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-21D	11/21/2008	--	--	2.00	1.00	0.75	6.43	
MW-21D	11/25/2008	--	--	1.20	0.15	1.35	6.58	
MW-21D	12/2/2008	--	--	0.60	0.15	0.85	6.73	
MW-21D	12/4/2008	--	--	0.60	0.05	0.70	6.78	
MW-21D	12/9/2008	--	--	0.30	0.05	0.74	6.83	
MW-21D	12/18/2008	--	--	1.50	0.25	1.00	7.08	
MW-21D	12/30/2008	--	--	1.50	0.20	0.55	7.28	DNAPL staining on bailer on outside and bottom of bailer
MW-21D	1/2/2009	3.69	--	2.20	0.50	0.75	7.78	DNAPL staining on bailer, few globules at bottom of bailer
MW-21D	1/7/2009	--	--	0.00	0.00	0.25	7.78	
MW-21D	1/14/2009	--	--	0.05	0.01	0.25	7.79	Slight DNAPL staining on bailer
MW-21D	1/20/2009	--	--	0.00	0.00	0.25	7.79	DNAPL staining on bailer, sheen present
MW-21D	1/23/2009	--	--	0.00	0.00	0.25	7.79	DNAPL staining on bailer
MW-21D	1/26/2009	--	--	0.01	0.01	0.49	7.80	DNAPL staining on bailer
MW-21D	1/27/2009	--	--	0.00	0.00	0.25	7.80	0.2' of grey water in bailer
MW-21D	1/28/2009	--	--	0.00	0.00	0.25	7.80	
MW-21D	2/5/2009	--	--	0.00	0.00	0.25	7.80	Clear water, Slight DNAPL staining on outside of bailer of bailer, took 1.5 minutes to recharge
MW-21D	3/3/2009	4.46	--	0.00	0.00	0.25	7.80	Clear water, Slight DNAPL staining on outside of bailer of bailer
MW-21D	3/11/2009	4.52	4.54	0.00	0.00	0.25	7.80	
MW-21D	3/17/2009	4.86	6.82	0.00	0.00	0.25	7.80	
MW-21D	3/25/2009	3.95	4.12	0.00	0.00	0.50	7.80	DNAPL staining on bailer
MW-21D	3/31/2009	4.01	4.15	0.00	0.00	0.25	7.80	
MW-21D	4/20/2009	3.87	3.99	0.00	0.00	0.25	7.80	
MW-21D	4/29/2009	4.15	4.45	0.00	0.00	0.25	7.80	
MW-21D	5/6/2009	4.10	4.10	0.00	0.00	0.25	7.80	
MW-21D	5/11/2009	4.06	4.64	0.00	0.00	0.25	7.80	Clear water,
MW-21D	5/20/2009	3.77	3.96	0.00	0.00	0.25	7.80	1.0' grey water; cloudy
MW-21D	5/27/2009	4.39	4.59	0.00	0.00	0.25	7.80	Slight DNAPL staining on bailer
MW-21D	6/15/2009	3.94	4.01	0.00	0.00	0.25	7.80	
MW-21D	6/24/2009	3.62	3.80	0.00	0.00	0.25	7.80	
MW-21D	6/30/2009	4.68	4.68	0.00	0.00	0.25	7.80	
MW-21D	7/31/2009	4.58	6.61	0.00	0.00	0.25	7.80	
MW-21D	8/13/2009	4.73	5.34	0.00	0.00	0.25	7.80	
MW-21D	8/26/2009	5.29	5.45	0.00	0.00	0.25	7.80	0.5' grey water in bailer
MW-21D	10/2/2009	4.12	4.46	0.00	0.00	0.25	7.80	
MW-21D	10/6/2009	4.49	4.72	0.00	0.00	0.25	7.80	Slight DNAPL staining on bailer
MW-21D	12/18/2009	4.69	5.28	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	1/26/2010	4.54	4.83	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	2/3/2010	5.07	5.17	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	3/1/2010	4.94	5.01	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	4/16/2010	5.00	5.00	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	8/3/2010	5.52	5.60	0.00	0.00	0.25	7.80	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-21D	8/10/2010	5.57	5.62	0.00	0.00	0.25	7.80	
MW-21D	8/30/2010	5.60	--	0.00	--	NB	7.80	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-21D	2/18/2011	5.05	--	0.00	--	NB	7.80	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-21D	2/22/2011	4.06	--	0.00	--	NB	7.80	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-21D	3/4/2011	4.33	--	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	3/18/2011	5.00	--	0.00	0.00	0.25	7.80	DNAPL staining on bailer
MW-21D	4/4/2011	3.69	--	0.00	0.00	0.25	7.80	
MW-21D	4/12/2011	4.05	--	0.20	0.10	0.40	7.90	
MW-21D	4/19/2011	3.80	--	0.80	0.03	0.13	7.93	Bottom at 26.11'
MW-21D	4/25/2011	3.46	--	0.75	0.13	0.37	8.06	
MW-21D	5/9/2011	4.55	--	1.00	0.10	0.40	8.16	
MW-21D	5/18/2011	4.63	--	0.10	0.00	0.25	8.16	Bottom at 26.04'
MW-21D	6/6/2011	4.08	--	1.40	--	NB	8.16	Bottom at 26.06'; Measured for DNAPL with tape
MW-21D	6/7/2011	4.05	--	1.50	0.21	0.54	8.37	
MW-21D	6/20/2011	4.39	--	0.90	0.07	0.43	8.44	
MW-21D	6/27/2011	3.98	--	0.70	0.01	0.24	8.45	
MW-21D	6/28/2011	4.34	--	0.50	0.04	0.21	8.49	
MW-21D	7/8/2011	4.10	--	0.15	0.01	0.24	8.50	
MW-21D	7/13/2011	5.27	--	0.90	0.03	0.47	8.53	
MW-21D	7/18/2011	5.34	--	0.40	0.04	0.46	8.57	
MW-21D	7/25/2011	6.21	--	0.50	0.04	0.46	8.61	
MW-21D	8/5/2011	5.46	--	0.05	0.00	0.25	8.61	
MW-21D	8/15/2011	5.42	--	0.70	0.08	0.43	8.68	
MW-21D	8/24/2011	5.42	--	0.90	0.05	0.45	8.73	
MW-21D	9/6/2011	5.67	--	0.70	0.08	0.43	8.81	
MW-21D	9/12/2011	5.69	--	0.80	0.0125	0.2475	8.83	
MW-21D	9/19/2011	5.00	--	0.60	0.0125	0.2475	8.84	
MW-21D	10/6/2011	5.38	--	0.90	0.0875	0.4125	8.93	
MW-21D	10/10/2011	5.42	--	0.50	0.00	0.25	8.93	
MW-21D	10/19/2011	5.03	--	0.60	0.03	0.23	8.95	
MW-21D	10/24/2011	5.04	--	0.20	0.01	0.24	8.96	
MW-21D	11/8/2011	5.03	--	0.00	0.00	0.25	8.96	Slight DNAPL staining on bailer
MW-21D	4/24/2012	4.86	--	2.20	0.00	0.00	8.96	First time pumping with EDRS, did not record amount pumped
MW-21D	5/23/2012	--	--	--	1.00	4.00	9.96	
MW-21D	7/24/2012	--	--	--	0.20	5.30	10.16	
MW-21D	7/31/2012	--	--	--	0.20	3.42	10.36	
MW-21D	8/21/2012	--	--	0.90	0.50	4.77	10.86	
MW-21D	9/18/2012	--	--	--	0.11	1.22	10.97	
MW-21D	9/27/2012	--	--	--	0.11	2.39	11.08	
MW-21D	10/2/2012	--	--	--	0.11	2.41	11.19	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-21D	10/15/2012	--	--	--	0.10	2.48	11.29	
MW-21D	11/14/2012	--	--	1.80	--	NB	11.29	
MW-21D	4/18/2013	--	--	3.00	--	NB	11.29	
MW-21D	8/23/2013	--	--	6.30	--	NB	11.29	Bottom at 27.18'; installed air lift
MW-21D	9/23/2013	--	--	--	0.43	1.55	11.72	
MW-21D	11/4/2013	--	--	--	0.43	0.52	12.15	
MW-21D	11/12/2013	--	--	--	0.43	0.89	12.58	
MW-21D	11/15/2013	--	--	--	0.42	0.63	13.00	
MW-21D	11/18/2013	--	--	--	0.42	0.82	13.42	
MW-21D	3/28/2014	--	--	3.00	1.00	0.68	14.42	
MW-21D	4/8/2014	--	--	--	0.92	0.96	15.34	
MW-21D	4/11/2014	--	--	--	0.24	0.00	15.58	
MW-21D	4/15/2014	--	--	--	0.92	0.27	16.50	
MW-21D	4/16/2014	--	--	--	0.00	0.00	16.50	Unable to measure DNAPL thickness due to airlift assembly
MW-21D	4/18/2014	--	--	--	0.92	0.53	17.42	
MW-21D	5/2/2014	--	--	--	0.92	0.53	18.34	
MW-21D	5/6/2014	--	--	--	0.92	0.58	19.26	
MW-21D	5/13/2014	--	--	--	0.92	0.59	20.18	
MW-21D	5/19/2014	--	--	--	0.92	0.37	21.10	
MW-21D	5/22/2014	--	--	--	0.85	0.00	21.95	
MW-21D	5/27/2014	--	--	--	0.32	0.00	22.27	
MW-21D	8/29/2014	--	--	--	0.45	2.65	22.72	
MW-21D	9/5/2014	--	--	--	0.45	1.56	23.17	
MW-21D	9/12/2014	--	--	--	0.45	2.05	23.62	
MW-21D	9/19/2014	--	--	--	0.45	0.66	24.07	
MW-21D	10/10/2014	--	-	0.50	0.45	0.84	24.52	Bottom at 26.40'
MW-21D	10/17/2014	--	--	--	0.45	0.92	24.97	
MW-21D	10/24/2014	--	--	--	0.45	1.16	25.42	
MW-21D	11/6/2014	--	--	--	0.43	0.76	25.85	
MW-21D	12/29/2014	--	--	--	0.00	0.00	25.85	Unable to measure DNAPL thickness due to airlift assembly
MW-21D	3/4/2015	--	--	--	0.00	0.00	25.85	Unable to measure DNAPL thickness due to airlift assembly
MW-21D	4/3/2015	--	--	--	2.10	0.00	27.95	
MW-21D	4/10/2015	--	--	--	0.86	0.00	28.81	
MW-21D	4/17/2015	--	--	--	1.14	0.00	29.95	
MW-21D	4/24/2015	--	--	--	0.69	0.00	30.64	
MW-21D	5/19/2015	--	--	2.00	0.00	0.00	30.64	Bottom at 27.50'
MW-21D	6/5/2015	--	--	2.00	0.00	0.00	30.64	
MW-21D	7/13/2015	--	--	3.10	0.00	0.00	30.64	
MW-21D	9/28/2015	--	--	4.10	0.00	0.00	30.64	Bottom at 28.30'
MW-21D	1/6/2016	--	--	4.40	0.00	0.00	30.64	Bottom at 26.60'
MW-21D	2/19/2016	--	--	5.00	0.00	0.00	30.64	Bottom at 27.00'
MW-21D	3/18/2016	--	--	--	1.20	0.00	31.84	Spouting, stop recovery

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-21D	4/8/2016	--	--	--	1.60	0.00	33.44	
MW-21D	5/20/2016	--	--	--	1.10	0.00	34.54	
MW-21D	6/22/2016	--	--	3.00	0.00	0.00	34.54	Bottom at 28.30'
MW-21D	9/9/2016	--	--	4.50	0.00	0.00	34.54	Bottom at 28.30'
MW-21D	10/21/2016	--	--	4.50	0.00	0.00	34.54	Bottom at 28.30'
MW-21D	12/2/2016	--	--	4.50	0.00	0.00	34.54	Bottom at 28.30'
MW-21D	2/24/2017	--	--	4.50	0.00	0.00	34.54	Bottom at 28.30'
MW-21D	3/10/2017	--	--	--	0.50	2.53	35.04	
MW-21D	3/24/2017	--	--	--	0.50	1.51	35.54	
MW-21D	4/7/2017	--	--	--	0.75	0.27	36.29	
MW-21D	4/21/2017	--	--	1.90	0.04	0.92	36.33	Botom at 28.30'
MW-21D	7/18/2017	--	--	2.90	0.04	0.92	36.37	Botom at 28.30'
MW-21D	10/20/2017	--	--	2.90	0.04	0.92	36.41	Botom at 28.30'
MW-21D	2/27/2018	--	--	3.00	0.00	0.00	36.41	Botom at 28.30'
MW-21D	5/18/2018	--	--	4.60	0.00	0.00	36.41	Botom at 28.30'
MW-21D	8/10/2018	--	--	4.10	0.00	0.00	36.41	Botom at 28.30'
MW-21D	11/19/2018	--	--	3.30	0.00	0.00	36.41	Botom at 28.30'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-22D	8/4/2000	--	--	NM	--	--	--	
MW-22D	11/13/2000	--	--	NM	--	--	--	
MW-22D	2/1/2001	--	--	NM	--	--	--	
MW-22D	6/21/2001	--	--	NM	--	--	--	
MW-22D	12/11/2001	--	--	NM	--	--	--	
MW-22D	8/11/2003	--	--	NM	--	--	--	
MW-22D	10/29/2003	3.61	--	NM	--	--	--	
MW-22D	2/17/2004	--	--	4.00	--	--	--	
MW-22D	9/9/2004	4.65	--	4.00	--	--	--	
MW-22D	6/28/2007	--	--	0.05	--	--	--	Grey, cloudy, sheen present
MW-22D	7/5/2007	--	--	NM	--	--	--	
MW-22D	7/24/2007	4.20	--	0.60	--	--	--	
MW-22D	8/6/2007	--	--	2.00	--	--	--	Clear water of DNAPL at 1.5 gal, no drawdown
MW-22D	8/9/2007	--	--	0.50	--	--	--	Clear water of DNAPL at 2.0 gal, no drawdown
MW-22D	10/15/2007	--	--	0.20	--	--	--	Clear water of DNAPL at 1.0 gal
MW-22D	10/17/2007	--	--	0.17	--	--	--	
MW-22D	10/19/2007	--	--	0.09	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-22D	11/30/2007	4.15	--	0.02	--	--	--	
MW-22D	3/5/2008	2.58	--	0.00	--	--	--	
MW-22D	4/10/2008	--	--	1.00	--	--	--	
MW-22D	9/5/2008	--	--	1.00	0.10	0.65	0.10	in bailer
MW-22D	9/5/2008	--	--	1.00	0.01	0.49	0.11	
MW-22D	9/5/2008	--	--	0.00	0.00	0.25	0.11	
MW-22D	9/8/2008	--	--	0.30	0.05	0.74	0.16	
MW-22D	9/9/2008	--	--	0.05	0.00	0.25	0.16	
MW-22D	9/10/2008	--	--	0.10	0.00	0.25	0.16	
MW-22D	9/12/2008	--	--	0.10	0.05	0.20	0.21	
MW-22D	9/16/2008	--	--	0.10	0.05	0.20	0.26	
MW-22D	9/18/2008	--	--	0.10	0.05	0.20	0.31	
MW-22D	9/24/2008	--	--	0.10	0.05	0.20	0.36	
MW-22D	9/26/2008	--	--	0.10	0.01	0.24	0.37	
MW-22D	9/30/2008	--	--	0.10	0.01	0.24	0.38	
MW-22D	10/1/2008	--	--	0.10	0.05	0.20	0.43	
MW-22D	10/2/2008	--	--	0.10	0.05	0.20	0.48	Recorded <0.01' DNAPL
MW-22D	10/3/2008	--	--	0.10	0.05	0.20	0.53	
MW-22D	10/14/2008	--	--	0.05	0.05	0.20	0.58	
MW-22D	10/17/2008	--	--	0.01	0.05	0.40	0.63	
MW-22D	10/21/2008	--	--	0.01	0.05	0.24	0.68	Recorded <0.01' DNAPL
MW-22D	10/24/2008	--	--	0.15	0.05	0.24	0.73	DNAPL staining on bottom of bailer
MW-22D	10/27/2008	--	--	0.05	0.05	0.24	0.78	DNAPL staining on bottom of bailer
MW-22D	11/21/2008	--	--	0.00	0.00	0.25	0.78	DNAPL staining on bottom of bailer
MW-22D	11/25/2008	--	--	0.00	0.00	0.25	0.78	DNAPL staining on bottom of bailer

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-22D	12/2/2008	--	--	0.00	0.00	0.25	0.78	Trace DNAPL staining on bailer
MW-22D	12/4/2008	--	--	0.00	0.00	0.25	0.78	Trace DNAPL staining on bailer
MW-22D	12/9/2008	--	--	0.00	0.00	0.25	0.78	DNAPL staining on bottom and outside of bailer
MW-22D	12/18/2008	--	--	0.00	0.00	0.25	0.78	DNAPL staining on bottom and outside of bailer
MW-22D	1/2/2009	3.63	--	0.00	0.00	0.25	0.78	
MW-22D	1/7/2009	--	--	0.00	0.00	0.25	0.78	
MW-22D	1/14/2009	--	--	0.05	0.05	0.24	0.83	Slight DNAPL staining on bailer
MW-22D	1/20/2009	--	--	0.00	0.00	0.25	0.83	DNAPL staining on bailer,
MW-22D	1/23/2009	--	--	0.00	0.00	0.25	0.83	DNAPL staining on bailer
MW-22D	1/26/2009	--	--	0.01	0.00	0.25	0.83	DNAPL staining on bailer
MW-22D	1/27/2009	--	--	0.00	0.00	0.25	0.83	DNAPL staining on bailer
MW-22D	1/28/2009	--	--	0.00	0.00	0.25	0.83	
MW-22D	2/5/2009	--	--	0.00	0.00	0.25	0.83	Slight DNAPL staining on outside of bailer of bailer
MW-22D	3/3/2009	4.12	--	0.01	0.01	0.24	0.84	Slight DNAPL staining on outside of bailer of bailer
MW-22D	3/11/2009	4.14	4.16	0.00	0.00	0.25	0.84	
MW-22D	3/17/2009	4.52	4.53	0.00	0.00	0.25	0.84	
MW-22D	3/25/2009	3.63	3.65	0.01	0.05	0.50	0.89	Slight DNAPL staining on outside of bailer
MW-22D	3/31/2009	3.70	3.70	0.00	0.00	0.25	0.89	DNAPL staining on bailer
MW-22D	4/20/2009	3.54	3.59	0.00	0.00	0.25	0.89	DNAPL staining on bailer
MW-22D	4/29/2009	3.83	3.81	0.00	0.00	0.25	0.89	
MW-22D	5/6/2009	3.81	3.84	0.00	0.00	0.25	0.89	
MW-22D	5/11/2009	3.76	3.82	0.00	0.00	0.25	0.89	
MW-22D	5/20/2009	3.43	3.48	0.00	0.00	0.25	0.89	
MW-22D	5/27/2009	4.06	4.06	0.00	0.00	0.25	0.89	
MW-22D	6/15/2009	3.58	3.60	0.00	0.00	0.25	0.89	
MW-22D	6/24/2009	3.28	3.37	0.00	0.00	0.25	0.89	Slight DNAPL staining on bailer
MW-22D	6/30/2009	4.35	4.42	0.00	0.00	0.25	0.89	
MW-22D	7/31/2009	4.32	4.40	0.00	0.00	0.25	0.89	
MW-22D	8/13/2009	4.42	4.43	0.04	0.03	0.47	0.92	yellow-green water
MW-22D	8/26/2009	4.97	4.96	0.10	0.05	0.45	0.97	
MW-22D	10/2/2009	3.78	3.81	0.10	0.01	0.24	0.98	
MW-22D	10/6/2009	4.17	4.27	0.00	0.00	0.25	0.98	
MW-22D	12/18/2009	4.34	4.40	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	1/26/2010	4.23	4.24	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	2/3/2010	4.74	4.77	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	3/1/2010	4.62	4.64	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	4/16/2010	4.68	4.70	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	8/3/2010	5.18	5.21	0.00	0.00	0.25	0.98	
MW-22D	8/10/2010	5.24	5.27	0.00	0.00	0.25	0.98	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-22D	8/30/2010	5.27	--	0.00	--	NB	0.98	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-22D	2/18/2011	4.74	--	0.00	--	NB	0.98	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-22D	2/22/2011	3.73	--	0.00	--	NB	0.98	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-22D	3/4/2011	4.02	--	0.00	0.00	0.25	0.98	
MW-22D	3/18/2011	4.60	--	0.00	0.00	0.25	0.98	
MW-22D	4/4/2011	3.40	--	0.00	0.00	0.25	0.98	
MW-22D	4/12/2011	3.71	--	0.00	0.00	0.25	0.98	
MW-22D	4/19/2011	3.47	--	0.00	--	NB	0.98	Bottom at 20.40'; Measured for DNAPL with tape
MW-22D	5/18/2011	4.30	--	0.00	--	NB	0.98	Bottom at 20.44'; Measured for DNAPL with tape
MW-22D	6/27/2011	3.61	--	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	7/8/2011	3.87	--	0.00	0.00	0.25	0.98	
MW-22D	7/13/2011	5.92	--	0.00	0.00	0.25	0.98	
MW-22D	7/18/2011	5.01	--	0.00	0.00	0.25	0.98	
MW-22D	7/25/2011	4.82	--	0.00	0.00	0.25	0.98	Trace DNAPL staining on bailer
MW-22D	8/5/2011	5.13	--	0.00	0.00	0.25	0.98	Trace DNAPL staining on bailer
MW-22D	8/24/2011	5.04	--	0.00	0.00	0.25	0.98	DNAPL staining on bailer
MW-22D	10/6/2011	5.05	--	0.00	0.00	0.25	0.98	
MW-22D	10/24/2011	4.76	--	0.01	0.01	0.24	0.99	
MW-22D	11/8/2011	4.75	--	0.00	0.00	0.25	0.99	Silty with DNAPL staining on bailer
MW-22D	6/5/2012	--	--	0.00	--	NB	0.99	Bottom at 20.62'
MW-22D	11/14/2012	--	--	0.00	0.00	NB	0.99	
MW-22D	4/18/2013	--	--	0.00	--	NB	0.99	Silty with DNAPL staining on probe
MW-22D	8/23/2013	--	--	0.00	--	NB	0.99	Bottom at 21.10'; 5' of sediment in well.
MW-22D	4/16/2014	--	--	0.00	0.00	0.00	0.99	Bottom at 20.75'
MW-22D	12/29/2014	--	--	0.00	0.00	0.00	0.99	Bottom at 21.70'
MW-22D	3/4/2015	--	--	0.00	0.00	0.00	0.99	Bottom at 21.70'
MW-22D	5/19/2015	--	--	0.00	0.00	0.00	0.99	Bottom at 21.00'
MW-22D	1/6/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 21.25'; sediment
MW-22D	2/19/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	6/22/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 21.45'; sediment
MW-22D	9/9/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	10/21/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 22.30'; sediment
MW-22D	12/2/2016	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	2/24/2017	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	4/21/2017	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	7/18/2017	--	--	0.00	0.00	0.00	0.99	Bottom at 21.55'; sediment
MW-22D	10/20/2017	--	--	0.00	0.00	0.00	0.99	Bottom at 21.80'; sediment
MW-22D	2/27/2018	--	--	0.00	0.00	0.00	0.99	Bottom at 21.80'; sediment
MW-22D	5/18/2018	--	--	0.00	0.00	0.00	0.99	Bottom at 21.80'; sediment

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-22D	8/10/2018	--	--	0.00	0.00	0.00	0.99	Bottom at 21.80'; sediment
MW-22D	11/19/2018	--	--	0.00	0.00	0.00	0.99	Bottom at 21.80'; sediment

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-23D	8/4/2000	--	--	NM	--	--	--	
MW-23D	11/13/2000	--	--	NM	--	--	--	
MW-23D	2/1/2001	--	--	NM	--	--	--	
MW-23D	6/21/2001	--	--	NM	--	--	--	
MW-23D	12/11/2001	--	--	NM	--	--	--	Purged dry @ 5.0 gal, strong odor
MW-23D	8/11/2003	--	--	NM	--	--	--	Odor, black floculants present in bailer
MW-23D	10/23/2003	3.23	--	NM	--	--	--	
MW-23D	9/9/2004	4.30	--	0.00	--	--	--	Grey
MW-23D	7/24/2007	4.08	--	OBS	--	--	--	Did not bail
MW-23D	10/15/2007	--	--	0.00	--	--	--	Purged dry @ 5.0 gal, grey
MW-23D	10/17/2007	--	--	0.00	--	--	--	
MW-23D	10/19/2007	--	--	0.00	--	--	--	Purged 0.5 gallons, (Checked for DNAPL Twice)
MW-23D	11/30/2007	7.57	--	0.00	--	--	--	
MW-23D	3/5/2008	3.04	--	0.00	--	--	--	
MW-23D	4/10/2008	--	--	0.00	--	--	--	
MW-23D	9/18/2008	--	--	0.00	0.00	0.25	0.00	
MW-23D	9/24/2008	--	--	0.00	0.00	0.25	0.00	
MW-23D	9/26/2008	4.42	--	0.00	0.00	0.25	0.00	
MW-23D	9/30/2008	4.57	--	0.00	0.00	0.25	0.00	
MW-23D	10/1/2008	--	--	0.00	0.00	0.25	0.00	
MW-23D	10/2/2008	4.65	--	0.00	0.00	0.25	0.00	
MW-23D	10/3/2008	4.67	--	0.00	0.00	0.25	0.00	
MW-23D	10/14/2008	4.53	--	0.00	0.00	0.25	0.00	
MW-23D	10/17/2008	4.52	--	0.00	0.00	0.25	0.00	
MW-23D	10/21/2008	4.64	--	0.00	0.00	0.25	0.00	
MW-23D	10/24/2008	4.28	--	0.00	0.00	0.25	0.00	
MW-23D	10/27/2008	4.33	--	0.00	0.00	0.25	0.00	
MW-23D	11/21/2008	4.14	--	0.00	0.00	0.25	0.00	Odor
MW-23D	11/25/2008	4.08	--	0.00	0.00	0.25	0.00	Odor
MW-23D	12/2/2008	3.88	--	0.00	0.00	0.25	0.00	Odor
MW-23D	12/4/2008	3.89	--	0.00	0.00	0.25	0.00	
MW-23D	12/9/2008	3.22	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	12/18/2008	3.67	--	0.00	0.00	0.25	0.00	Slight odor
MW-23D	12/30/2008	2.88	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/2/2009	3.26	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/7/2009	3.29	--	0.00	0.00	0.25	0.00	
MW-23D	1/14/2009	3.50'	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/20/2009	3.89	--	0.00	0.00	0.25	0.00	Slight DNAPL staining on outside of bailer
MW-23D	1/23/2009	4.28	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/26/2009	4.34'	--	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-23D	1/27/2009	4.34	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/28/2009	4.31	--	0.00	0.00	0.25	0.00	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-23D	2/5/2009	4.13	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	3/3/2009	3.79	--	0.00	0.00	0.25	0.00	Clear water
MW-23D	3/11/2009	3.80	5.29	0.00	0.00	0.25	0.00	
MW-23D	3/17/2009	4.10	5.68	0.00	0.00	0.25	0.00	
MW-23D	3/25/2009	3.28	6.22	0.00	0.00	0.50	0.00	Clear water
MW-23D	3/31/2009	3.27	4.76	0.00	0.00	0.25	0.00	
MW-23D	4/20/2009	3.13	3.27	0.00	0.00	0.25	0.00	
MW-23D	4/29/2009	3.42	4.94	0.00	0.00	0.25	0.00	
MW-23D	5/6/2009	3.50	4.98	0.00	0.00	0.25	0.00	
MW-23D	5/11/2009	3.29	4.86	0.00	0.00	0.25	0.00	
MW-23D	5/20/2009	3.08	4.54	0.00	0.00	0.25	0.00	Clear water
MW-23D	5.27/2009	3.68	5.19	0.00	0.00	0.25	0.00	
MW-23D	6/15/2009	3.22	4.63	0.00	0.00	0.25	0.00	
MW-23D	6/24/2009	2.86	5.61	0.00	0.00	0.25	0.00	
MW-23D	6/30/2009	3.87	5.07	0.00	0.00	0.25	0.00	
MW-23D	7/31/2009	3.92	5.10	0.00	0.00	0.25	0.00	
MW-23D	8/13/2009	4.01	6.62	0.00	0.00	0.25	0.00	
MW-23D	8/26/2009	4.60	6.13	0.00	0.00	0.25	0.00	Clear water
MW-23D	10/2/2009	3.42	4.90	0.00	0.00	0.25	0.00	
MW-23D	10/6/2009	3.77	5.19	0.00	0.00	0.25	0.00	
MW-23D	12/18/2009	3.93	5.52	0.00	0.00	0.25	0.00	Clear water
MW-23D	1/26/2010	3.83	5.32	0.00	0.00	0.25	0.00	
MW-23D	2/3/2010	4.40	5.85	0.00	0.00	0.25	0.00	
MW-23D	3/1/2010	4.35	5.92	0.00	0.00	0.25	0.00	
MW-23D	8/30/2010	4.88	--	0.00	--	NB	0.00	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-23D	2/18/2011	4.39	--	0.00	0.00	NB	0.00	
MW-23D	2/22/2011	3.32	--	0.00	0.00	NB	0.00	
MW-23D	7/13/2011	4.58	--	0.00	0.00	0.08	0.00	
MW-23D	8/24/2011	4.70	--	0.00	0.00	0.08	0.00	Odor
MW-23D	10/6/2011	4.68	--	0.00	0.00	0.25	0.00	Odor
MW-23D	4/16/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 24.3', odor
MW-23D	12/29/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 24.30'
MW-23D	3/4/2015	--	--	0.00	0.00	0.00	0.00	Bottom at 24.30'
MW-23D	2/19/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 24.30'
MW-23D	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	7/18/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	10/20/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-23D	2/27/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	5/18/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	8/10/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'
MW-23D	11/19/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 24.40'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-24A	3/5/2008	--	--	--	--	--	--	
MW-24A	4/10/2008	--	--	--	--	--	--	
MW-24A	9/5/2008	--	--	0.20	2.00	0.50	2.00	
MW-24A	9/5/2008	--	--	1.50	2.00	0.55	4.00	
MW-24A	9/5/2008	--	--	1.00	0.10	0.40	4.10	
MW-24A	9/5/2008	--	--	0.04	0.01	0.49	4.11	
MW-24A	9/8/2008	--	--	2.25	0.75	1.50	4.86	
MW-24A	9/9/2008	--	--	1.25	0.15	0.10	5.01	
MW-24A	9/10/2008	--	--	2.80	0.25	0.00	5.26	
MW-24A	9/12/2008	--	--	2.00	0.25	1.25	5.51	
MW-24A	9/18/2008	--	--	1.20	0.30	0.12	5.81	
MW-24A	9/24/2008	--	--	1.40	0.15	0.95	5.96	
MW-24A	9/26/2008	--	--	2.70	0.50	0.10	6.46	
MW-24A	9/26/2008	--	--	0.25	0.10	0.50	6.56	
MW-24A	9/30/2008	--	--	1.80	0.40	0.40	6.96	
MW-24A	9/30/2008	--	--	0.60	0.10	0.85	7.06	
MW-24A	9/16/2008	--	--	1.50	0.13	0.40	7.19	Bailed twice this day.
MW-24A	10/1/2008	--	--	1.00	0.10	0.15	7.29	
MW-24A	10/2/2008	--	--	0.50	0.15	0.85	7.44	Bailed twice this day.
MW-24A	10/2/2008	--	--	0.20	0.05	0.40	7.49	
MW-24A	10/3/2008	--	--	0.50	0.10	0.65	7.59	Bailed twice this day.
MW-24A	10/3/2008	--	--	0.10	0.05	0.90	7.64	
MW-24A	10/14/2008	--	--	1.50	0.55	1.70	8.19	Bailed 3 times this day.
MW-24A	10/14/2008	--	--	0.80	0.20	0.80	8.39	
MW-24A	10/17/2008	--	--	1.80	0.80	0.95	9.19	
MW-24A	10/17/2008	--	--	0.75	0.10	0.40	9.29	
MW-24A	10/17/2008	--	--	0.00	0.00	0.25	9.29	Bailed twice this day.
MW-24A	10/21/2008	--	--	2.80	0.80	0.95	10.09	
MW-24A	10/21/2008	--	--	0.50	0.10	0.65	10.19	
MW-24A	10/24/2008	--	--	0.50	0.20	1.55	10.39	
MW-24A	10/27/2008	4.20	--	1.50	0.15	0.10	10.54	
MW-24A	11/21/2008	--	--	3.00	1.50	0.75	12.04	
MW-24A	11/25/2008	--	--	1.50	0.25	1.25	12.29	Bailed twice this day.
MW-24A	12/2/2008	--	--	1.00	0.20	1.05	12.49	
MW-24A	12/2/2008	--	--	1.50	0.15	0.85	12.64	
MW-24A	12/4/2008	--	--	1.25	0.15	0.85	12.79	
MW-24A	12/9/2008	--	--	0.70	0.05	0.95	12.84	
MW-24A	12/18/2008	--	--	3.00	0.50	1.00	13.34	Bailed twice this day.
MW-24A	12/30/2008	--	--	1.90	0.25	0.75	13.59	
MW-24A	12/30/2008	--	--	1.00	0.15	0.60	13.74	
MW-24A	1/2/2009	3.21	--	2.10	0.65	0.85	14.39	
MW-24A	1/7/2009	--	--	1.20	0.40	0.60	14.79	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-24A	1/14/2009	--	--	1.50	0.25	1.00	15.04	
MW-24A	1/20/2009	--	--	1.80	0.25	1.00	15.29	
MW-24A	1/20/2009	--	--	0.20	0.10	0.65	15.39	DNAPL present
MW-24A	1/23/2009	--	--	1.20	0.20	1.05	15.59	DNAPL present
MW-24A	1/26/2009	--	--	1.00	0.10	1.15	15.69	DNAPL present
MW-24A	1/27/2009	--	--	0.50	0.10	0.90	15.79	DNAPL present; Bailed twice this day.
MW-24A	1/28/2009	--	--	0.80	0.10	0.90	15.89	
MW-24A	2/5/2009	--	--	0.10	0.25		16.14	DNAPL present
MW-24A	3/3/2009	4.31	--	1.00	0.10	0.65	16.24	DNAPL present
MW-24A	3/11/2009	3.80	6.83	0.30	0.05	0.95	16.29	
MW-24A	3/17/2009	4.05	8.52	0.30	0.05	1.20	16.34	
MW-24A	3/25/2009	3.45	10.65	0.10	0.05	1.20	16.39	
MW-24A	3/31/2009	3.26	6.35	0.15	0.10	0.49	16.49	
MW-24A	4/20/2009	3.08	6.12	0.20	0.05	0.70	16.54	
MW-24A	4/29/2009	3.41	9.19	0.60	0.10	0.90	16.64	
MW-24A	5/6/2009	3.45	6.48	0.01	0.00	1.25	16.64	
MW-24A	5/11/2009	3.31	4.74	0.00	0.00	0.25	16.64	DNAPL staining on bailer
MW-24A	5/20/2009	2.96	8.83	0.05	0.04	0.96	16.68	
MW-24A	5/27/2009	3.61	9.53	0.05	0.04	0.96	16.72	
MW-24A	6/15/2009	3.12	9.12	0.30	0.15	0.85	16.87	
MW-24A	6/24/2009	2.74	10.66	0.18	0.08	0.67	16.95	
MW-24A	6/30/2009	3.64	8.50	1.00	0.15	1.10	17.10	
MW-24A	7/31/2009	4.18	5.76	2.00	0.30	0.70	17.40	
MW-24A	8/13/2009	3.90	15.62	2.80	0.45	0.80	17.85	
MW-24A	8/26/2009	4.53	14.52	1.50	0.75	1.00	18.60	
MW-24A	10/2/2009	3.28	7.98	0.05	0.10	0.65	18.70	Tan water
MW-24A	10/6/2009	3.83	16.42	3.00	1.05	1.20	19.75	
MW-24A	12/18/2009	3.88	12.29	7.00	0.90	0.85	20.65	4.0' of DNAPL up rope tied on bailer
MW-24A	12/21/2009	3.62	8.21	1.50	0.22	0.78	20.87	
MW-24A	1/4/2010	4.33	14.38	0.08	0.62	1.38	21.49	Did not hit bottom until 3rd bailer was thrown down well
MW-24A	1/6/2010	4.47	12.21	1.25	0.24	1.01	21.73	
MW-24A	1/11/2010	4.58	12.53	1.50	0.30	0.95	22.03	
MW-24A	1/18/2010	4.13	9.81	2.60	0.22	0.53	22.25	
MW-24A	1/25/2010	3.63	12.72	2.50	0.27	0.73	22.52	
MW-24A	2/2/2010	4.30	12.35	1.50	0.16	0.84	22.68	
MW-24A	2/2/2010	7.42	14.04	0.50	0.03	0.97	22.71	
MW-24A	2/4/2010	4.40	12.80	1.50	0.16	0.84	22.87	
MW-24A	2/4/2010	6.25	13.29	0.50	0.03	0.97	22.90	
MW-24A	2/5/2010	4.31	NM	1.00	0.23	1.52	23.13	
MW-24A	2/22/2010	3.90	15.20	1.50	0.22	1.28	23.35	
MW-24A	3/2/2010	4.19	16.97	1.00	0.23	1.77	23.58	
MW-24A	3/2/2010	9.13	17.92	0.30	0.02	0.98	23.60	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-24A	3/4/2010	4.29	12.31	0.50	0.12	0.88	23.72	
MW-24A	3/8/2010	4.19	12.95	1.25	0.21	1.04	23.93	
MW-24A	3/11/2010	4.42	11.77	1.00	0.16	0.84	24.09	
MW-24A	4/16/2010	4.21	11.83	1.00	0.10	0.65	24.19	
MW-24A	4/26/2010	3.26	13.12	0.50	0.08	0.92	24.27	
MW-24A	5/5/2010	3.88	13.21	0.50	0.16	1.34	24.43	
MW-24A	6/1/2010	4.21	6.95	0.00	0.00	0.25	24.43	
MW-24A	6/9/2010	4.03	6.51	0.00	0.00	0.25	24.43	
MW-24A	8/17/2010	5.12	--	0.25	--	NB	24.43	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-24A	8/23/2010	4.64	--	1.15	--	NB	24.43	Recovery Program Temporarily Suspended, Bottom at 26.90'; Measured for DNAPL with tape
MW-24A	8/30/2010	4.76	--	1.70	--	NB	24.43	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-24A	9/17/2010	4.75	--	5.50	--	NB	24.43	Bottom at 26.92'; Measured for DNAPL with tape
MW-24A	9/24/2010	4.89	24.00	5.50	2.66	1.59	27.09	
MW-24A	10/1/2010	5.04	23.00	2.00	1.62	2.13	28.71	
MW-24A	10/5/2010	4.94	24.00	1.25	0.82	2.93	29.53	
MW-24A	10/12/2010	5.07	22.00	2.00	0.93	2.57	30.46	
MW-24A	10/18/2010	5.01	--	2.00	1.04	1.46	31.50	Bottom at 26.92'
MW-24A	12/10/2010	4.30	--	5.00	2.15	1.85	33.65	
MW-24A	12/28/2010	4.21	--	6.00	1.56	1.19	35.21	
MW-24A	1/3/2011	3.97	--	1.50	0.60	1.15	35.81	
MW-24A	1/10/2011	4.70	--	1.50	0.24	0.76	36.05	
MW-24A	1/17/2011	4.39	--	2.00	0.19	0.56	36.24	
MW-24A	1/28/2011	--	--	2.25	--	NB	36.24	Did not bail; Measured for DNAPL with tape
MW-24A	2/18/2011	4.32	--	0.49	0.19	0.56	36.43	
MW-24A	2/22/2011	3.73	--	1.15	--	NB	36.43	Did not bail; Measured for DNAPL with tape
MW-24A	3/4/2011	3.52	--	0.60	0.09	0.41	36.52	
MW-24A	3/18/2011	3.91	--	1.00	0.12	0.63	36.64	Sand at bottom
MW-24A	3/28/2011	4.42	--	0.70	0.01	0.49	36.65	
MW-24A	4/4/2011	3.52	--	0.10	0.01	0.24	36.66	
MW-24A	4/12/2011	3.29	--	0.10	0.00	0.25	36.66	
MW-24A	4/19/2011	3.00	--	0.10	0.01	0.07	36.67	Bottom at 26.50'
MW-24A	4/25/2011	2.81	--	0.10	--	NB	36.67	Did not bail; Measured for DNAPL with tape
MW-24A	5/9/2011	3.70	--	0.30	0.03	0.22	36.70	
MW-24A	5/18/2011	3.87	--	0.15	0.00	0.25	36.70	Bottom at 26.50'
MW-24A	6/6/2011	4.31	--	0.40	--	NB	36.70	Bottom at 26.50'; Measured for DNAPL with tape
MW-24A	6/7/2011	4.25	--	0.40	0.03	0.22	36.73	
MW-24A	6/20/2011	3.60	--	0.30	0.01	0.24	36.74	
MW-24A	6/27/2011	3.07	--	0.60	0.03	0.22	36.77	
MW-24A	6/28/2011	3.57	--	0.30	0.02	0.06	36.79	
MW-24A	7/8/2011	3.33	--	0.50	0.05	0.70	36.84	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-24A	7/11/2011	4.43	--	0.20	0.01	0.49	36.85	
MW-24A	7/13/2011	4.49	--	0.60	0.04	0.46	36.89	
MW-24A	7/18/2011	4.60	--	1.50	0.14	0.36	37.03	
MW-24A	7/25/2011	4.38	--	1.50	0.15	0.35	37.18	
MW-24A	8/5/2011	4.70	--	1.30	0.50	0.50	37.68	
MW-24A	8/15/2011	4.58	--	2.30	0.44	0.56	38.12	
MW-24A	8/24/2011	4.60	--	2.80	0.48	0.56	38.59	
MW-24A	9/6/2011	6.14	--	2.50	0.59	0.41	39.18	
MW-24A	9/12/2011	4.89	--	2.00	0.5	1.5	39.68	
MW-24A	9/19/2011	6.20	--	1.00	0.5	0.5	40.14	
MW-24A	10/6/2011	4.60	--	2.20	0.71	1.04	40.85	
MW-24A	10/10/2011	4.62	--	2.70	0.46	0.54	41.32	
MW-24A	10/19/2011	4.31	--	3.00	0.64	0.36	41.95	
MW-24A	11/4/2011	3.87	--	3.00	0.56	0.44	42.52	
MW-24A	11/8/2011	4.29	--	0.90	0.14	0.36	42.65	
MW-24A	6/5/2012	--	--	3.20	0.00	NB	42.65	Bottom at 26.04, need to re survey.
MW-24A	7/31/2012	--	--	5.20	1.00	2.00	43.65	
MW-24A	8/21/2012	--	--	5.25	1.25	3.15	44.90	
MW-24A	8/24/2012	--	--	4.00	0.00	NB	44.90	
MW-24A	8/29/2012	--	--	5.00	0.75	2.26	45.65	
MW-24A	9/4/2012	--	--	3.50	0.50	1.65	46.15	
MW-24A	9/17/2012	--	--	5.00	0.00	NB	46.15	
MW-24A	9/18/2012	--	--	5.00	0.32	1.81	46.47	
MW-24A	9/27/2012	--	--	5.50	0.32	2.37	46.79	
MW-24A	10/2/2012	--	--	4.00	0.32	2.51	47.11	
MW-24A	10/15/2012	--	--	--	0.32	3.19	47.43	
MW-24A	11/14/2012	--	--	5.20	--	NB	47.43	
MW-24A	12/5/2012	--	--	5.00	1.60	0.00	49.03	
MW-24A	12/17/2012	--	--	1.90	0.04	1.85	49.07	
MW-24A	1/2/2013	--	--	3.00	0.03	2.48	49.10	
MW-24A	1/7/2013	--	--	2.10	0.03	1.66	49.13	
MW-24A	4/18/2013	--	--	0.00	--	NB	49.13	
MW-24A	5/3/2013	--	--	0.00	--	NB	49.13	
MW-24A	8/23/2013	--	--	1.30	--	NB	49.13	Bottom at 23.98'; 2.5' of sediment in well
MW-24A	9/23/2013	--	--	--	0.43	0.82	49.56	Installed air lift
MW-24A	11/12/2013	--	--	--	0.43	0.58	49.99	
MW-24A	11/15/2013	--	--	--	0.42	0.78	50.41	
MW-24A	3/28/2014	--	--	--	0.90	0.17	51.31	
MW-24A	4/16/2014	--	--	--	0.00	0.00	51.31	Unable to measure DNAPL thickness due to airlift assembly
MW-24A	12/29/2014	--	--	--	0.00	0.00	51.31	Unable to measure DNAPL thickness due to airlift assembly
MW-24A	3/4/2015	--	--	--	0.00	0.00	51.31	Unable to measure DNAPL thickness due to airlift assembly
MW-24A	4/15/2015	--	--	5.00	0.00	0.00	51.31	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-24A	5/8/2015	--	--	--	0.90	1.07	52.21	
MW-24A	5/15/2015	--	--	--	0.89	0.72	53.10	
MW-24A	5/19/2015	--	--	1.50	0.00	0.00	53.10	
MW-24A	7/13/2015	--	--	2.00	0.00	0.00	53.10	
MW-24A	9/28/2015	--	--	4.80	0.00	0.00	53.10	Bottom at 25.85'
MW-24A	1/6/2016	--	--	4.40	0.00	0.00	53.10	Bottom at 25.90'
MW-24A	2/19/2016	--	--	5.25	0.00	0.00	53.10	Bottom at 26.75'
MW-24A	3/18/2016	--	--	--	0.90	0.84	54.00	
MW-24A	4/8/2016	--	--	--	0.05	1.26	54.05	
MW-24A	5/20/2016	--	--	--	0.05	1.00	54.10	
MW-24A	6/22/2016	--	--	0.80	0.00	0.00	54.10	Bottom at 26.75'
MW-24A	9/9/2016	--	--	1.00	0.00	0.00	54.10	Bottom at 26.75'
MW-24A	10/21/2016	--	--	3.00	0.00	0.00	54.10	Bottom at 26.75'
MW-24A	12/2/2016	--	--	3.50	0.00	0.00	54.10	Bottom at 26.75'
MW-24A	2/24/2017	--	--	2.90	0.00	0.00	54.10	Bottom at 26.75'
MW-24A	3/10/2017	--	--	--	0.84	0.00	54.94	
MW-24A	4/21/2017	--	--	1.70	0.00	0.00	54.94	Bottom at 26.75'
MW-24A	7/18/2017	--	--	2.30	0.00	0.00	54.94	Bottom at 26.75'
MW-24A	10/20/2017	--	--	2.30	0.00	0.00	54.94	Bottom at 26.75'
MW-24A	2/27/2018	--	--	3.40	0.00	0.00	54.94	Bottom at 26.75'
MW-24A	5/18/2018	--	--	2.30	0.00	2.90	54.94	Bottom at 26.75'
MW-24A	8/10/2018	--	--	1.60	0.00	2.90	54.94	Bottom at 26.75'
MW-24A	11/19/2018	--	--	2.20	0.00	2.90	54.94	Bottom at 26.75'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-25A	3/5/2008	--	--	--	--	--	--	
MW-25A	4/10/2008	--	--	--	--	--	--	
MW-25A	9/5/2008	--	--	0.00	0.00	0.25	0.00	
MW-25A	9/9/2008	--	--	0.00	0.00	0.25	0.00	
MW-25A	9/18/2008	--	--	0.00	0.00	0.25	0.00	
MW-25A	9/24/2008	--	--	0.00	0.00	0.25	0.00	
MW-25A	9/26/2008	6.60	--	0.00	0.00	0.25	0.00	
MW-25A	9/30/2008	6.73	--	0.00	0.00	0.25	0.00	
MW-25A	10/1/2008	--	--	0.00	0.00	0.25	0.00	
MW-25A	10/2/2008	6.80	--	0.00	0.00	0.25	0.00	
MW-25A	10/3/2008	6.87	--	0.00	0.00	0.25	0.00	
MW-25A	10/14/2008	6.24	--	0.00	0.00	0.25	0.00	
MW-25A	10/17/2008	6.27	--	0.00	0.00	0.25	0.00	
MW-25A	10/21/2008	6.35	--	0.00	0.00	0.25	0.00	
MW-25A	10/24/2008	6.93	--	0.00	0.00	0.25	0.00	
MW-25A	10/27/2008	6.04	--	0.00	0.00	0.25	0.00	
MW-25A	11/21/2008	6.24	--	0.00	0.00	0.25	0.00	
MW-25A	11/25/2008	5.48	--	0.00	0.00	0.25	0.00	
MW-25A	12/2/2008	5.28	--	0.00	0.00	0.25	0.00	
MW-25A	12/4/2008	5.29	--	0.00	0.00	0.25	0.00	
MW-25A	12/9/2008	4.36	--	0.00	0.00	0.25	0.00	Tan water
MW-25A	12/18/2008	4.88	--	0.00	0.00	0.25	0.00	Slight odor
MW-25A	12/30/2008	4.04	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	1/2/2009	4.48	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	1/7/2009	4.50	--	0.00	0.00	0.25	0.00	
MW-25A	1/14/2009	4.67	--	0.00	0.00	0.25	0.00	Slight odor
MW-25A	1/20/2009	5.41	--	0.00	0.00	0.25	0.00	Light brown water
MW-25A	1/23/2009	4.28	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	1/26/2009	6.89	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	1/27/2009	5.83	--	0.00	0.00	0.25	0.00	Light-yellow colored water in bailer
MW-25A	1/29/2009	5.85	--	0.00	0.00	0.25	0.00	
MW-25A	2/5/2009	5.57	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	3/3/2009	4.78	--	0.00	0.00	0.25	0.00	Clear water
MW-25A	3/11/2009	5.20	6.38	0.00	0.00	0.25	0.00	
MW-25A	3/17/2009	5.95	6.86	0.00	0.00	0.25	0.00	
MW-25A	3/25/2009	4.81	6.76	0.00	0.00	0.50	0.00	
MW-25A	3/31/2009	4.58	5.76	0.00	0.00	0.25	0.00	
MW-25A	4/20/2009	4.35	5.48	0.00	0.00	0.25	0.00	
MW-25A	4/29/2009	4.70	5.29	0.00	0.00	0.25	0.00	
MW-25A	5/6/2009	4.85	5.95	0.00	0.00	0.25	0.00	
MW-25A	5/11/2009	4.78	6.04	0.00	0.00	0.25	0.00	
MW-25A	5/20/2009	4.42	5.63	0.00	0.00	0.25	0.00	

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-25A	5/27/2009	4.95	6.22	0.00	0.00	0.25	0.00	
MW-25A	6/15/2009	4.79	5.63	0.00	0.00	0.25	0.00	
MW-25A	6/24/2009	4.64	5.79	0.00	0.00	0.25	0.00	
MW-25A	6/30/2009	5.49	6.21	0.00	0.00	0.25	0.00	
MW-25A	7/31/2009	5.21	6.48	0.00	0.00	0.25	0.00	
MW-25A	8/13/2009	5.56	6.85	0.00	0.00	0.25	0.00	
MW-25A	8/26/2009	6.74	7.95	0.00	0.00	0.25	0.00	
MW-25A	10/2/2009	4.98	5.96	0.00	0.00	0.25	0.00	
MW-25A	10/6/2009	5.61	6.50	0.00	0.00	0.25	0.00	
MW-25A	12/18/2009	4.58	5.95	0.00	0.00	0.25	0.00	
MW-25A	1/26/2010	4.35	5.55	0.00	0.00	0.25	0.00	
MW-25A	2/3/2010	5.10	6.31	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-25A	3/1/2010	4.88	6.25	0.00	0.00	0.25	0.00	DNAPL staining on bailer
MW-25A	8/3/2010	6.99	8.08	0.00	0.00	0.25	0.00	
MW-25A	8/10/2010	7.20	8.27	0.00	0.00	0.25	0.00	
MW-25A	8/24/2011	NM	--	0.00	0.00	0.25	0.00	Silt in bailer
MW-25A	10/6/2011	NM	--	0.00	0.00	0.25	0.00	Odor, silt in bailer
MW-25A	4/16/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 22.15'
MW-25A	1/6/2016	--	--	0.00	0.00	0.00	0.00	
MW-25A	2/19/2016	--	--	0.00	0.00	0.00	0.00	
MW-25A	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	7/18/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 22.30'
MW-25A	10/20/2017	--	--	0.10	0.00	0.00	0.00	Bottom at 22.50'
MW-25A	2/27/2018	--	--	0.50	0.00	0.00	0.00	Bottom at 22.50'
MW-25A	5/18/2018	--	--	0.80	0.00	0.00	0.00	Bottom at 22.50'
MW-25A	6/14/2018	--	--	--	0.01	0.49	0.01	Bail
MW-25A	8/10/2018	--	--	0.00	0.00	0.00	0.01	Bottom at 22.50'
MW-25A	11/19/2018	--	--	0.05	0.00	0.00	0.01	Bottom at 22.50'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-26A	3/5/2008	--	--	--	--	--	--	
MW-26A	4/10/2008	--	--	--	--	--	--	
MW-26A	9/5/2008	--	--	0.00	0.00	0.25	0.00	
MW-26A	9/8/2008	37.48	--	0.00	0.00	0.25	0.00	
MW-26A	9/9/2008	--	--	0.00	0.00	0.25	0.00	
MW-26A	9/18/2008	--	--	0.00	0.00	0.25	0.00	
MW-26A	9/24/2008	--	--	0.00	0.00	0.25	0.00	
MW-26A	9/26/2008	37.33	--	0.00	0.00	0.25	0.00	
MW-26A	9/30/2008	37.24	--	0.00	0.00	0.25	0.00	
MW-26A	10/1/2008	--	--	0.00	0.00	0.25	0.00	
MW-26A	10/2/2008	37.63	--	0.00	0.00	0.25	0.00	
MW-26A	10/3/2008	38.43	--	0.00	0.00	0.25	0.00	
MW-26A	10/14/2008	37.32	--	0.00	0.00	0.25	0.00	Brown water
MW-26A	10/17/2008	37.62	--	0.00	0.00	0.25	0.00	
MW-26A	10/21/2008	37.74	--	0.00	0.00	0.25	0.00	
MW-26A	10/24/2008	38.27	--	0.00	0.00	0.25	0.00	
MW-26A	10/27/2008	38.43	--	0.00	0.00	0.25	0.00	
MW-26A	11/21/2008	37.75	--	0.00	0.00	0.25	0.00	
MW-26A	11/25/2008	37.84	--	0.00	0.00	0.25	0.00	
MW-26A	12/2/2008	37.58	--	0.00	0.00	0.25	0.00	
MW-26A	12/4/2008	38.19	--	0.00	0.00	0.25	0.00	
MW-26A	12/9/2008	38.47	--	0.00	0.00	0.25	0.00	
MW-26A	12/18/2008	37.29	--	0.00	0.00	0.25	0.00	
MW-26A	12/30/2008	36.09	--	0.00	0.00	0.25	0.00	Clear water/ tan at bottom
MW-26A	1/2/2009	35.86	--	0.00	0.00	0.25	0.00	Light brown to clear water
MW-26A	1/7/2009	35.43	--	0.00	0.00	0.25	0.00	
MW-26A	1/14/2009	35.25	--	0.00	0.00	0.25	0.00	Cloudy water
MW-26A	1/20/2009	35.36	--	0.00	0.00	0.25	0.00	Clear water
MW-26A	1/23/2009	38.59	--	0.00	0.00	0.25	0.00	Clear water/light brown
MW-26A	1/26/2009	35.40	--	0.00	0.00	0.25	0.00	Grey water
MW-26A	1/27/009	35.85	--	0.00	0.00	0.25	0.00	Clear water
MW-26A	1/28/2009	35.61	--	0.00	0.00	0.25	0.00	
MW-26A	2/5/2009	35.65	--	0.00	0.00	0.25	0.00	Clear water
MW-26A	3/3/2009	33.08	--	0.00	0.00	0.25	0.00	Clear water
MW-26A	3/11/2009	33.00	34.36	0.00	0.00	0.25	0.00	
MW-26A	3/17/2009	33.28	34.81	0.00	0.00	0.25	0.00	
MW-26A	3/25/2009	31.97	34.56	0.00	0.00	0.50	0.00	
MW-26A	3/31/2009	33.49	34.83	0.00	0.00	0.25	0.00	
MW-26A	4/20/2009	37.51	38.86	0.00	0.00	0.25	0.00	
MW-26A	4/29/2009	36.79	37.54	0.00	0.00	0.25	0.00	
MW-26A	5/6/2009	36.78	NM	0.00	0.00	0.25	0.00	
MW-26A	5/11/2009	35.54	37.24	0.00	0.00	0.25	0.00	Clear water

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-26A	5/20/2009	36.39	37.07	0.00	0.00	0.26	0.00	Clear water
MW-26A	5/27/2009	36.45	37.13	0.00	0.00	0.25	0.00	
MW-26A	6/15/2009	35.90	36.40	0.00	0.00	0.25	0.00	
MW-26A	6/24/2009	35.81	37.96	0.00	0.00	0.25	0.00	
MW-26A	6/30/2009	35.56	37.71	0.00	0.00	0.25	0.00	
MW-26A	7/31/2009	33.23	34.54	0.00	0.00	0.25	0.00	
MW-26A	8/13/2009	33.14	34.93	0.00	0.00	0.25	0.00	Clear water
MW-26A	8/26/2009	33.14	34.45	0.00	0.00	0.25	0.00	Clear water
MW-26A	10/2/2009	0.39	32.07	0.00	0.00	0.25	0.00	
MW-26A	10/6/2009	31.61	33.21	0.00	0.00	0.25	0.00	
MW-26A	12/18/2009	29.98	31.41	0.00	0.00	0.25	0.00	Clear water
MW-26A	1/26/2010	35.36	NM	0.00	0.00	0.00	0.00	
MW-26A	2/3/2010	35.01	NM	0.00	0.00	0.00	0.00	
MW-26A	3/1/2010	34.85	NM	0.00	0.00	0.00	0.00	
MW-26A	8/3/2010	22.39	23.81	0.00	0.00	0.25	0.00	
MW-26A	8/10/2010	23.38	24.77	0.00	0.00	0.25	0.00	
MW-26A	7/13/2011	NM	--	0.00	0.00	0.08	0.00	
MW-26A	8/24/2011	NM	--	0.00	0.00	0.25	0.00	
MW-26A	10/6/2011	30.66	--	0.00	0.00	0.25	0.00	
MW-26A	4/16/2014	--	--	0.50	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	12/31/2014	--	--	0.50	0.00	0.00	0.00	Bottom at 42.24'
MW-26A	3/4/2015	--	--	0.70	0.00	0.00	0.00	Bottom at 41.85'
MW-26A	5/19/2015	--	--	0.60	0.00	0.00	0.00	Bottom at 41.85'
MW-26A	1/6/2016	--	--	0.50	0.00	0.00	0.00	Bottom at 41.85'
MW-26A	2/19/2016	--	--	0.60	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	6/22/2016	--	--	0.50	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	9/9/2016	--	--	0.70	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	10/21/2016	--	--	0.70	0.00	0.00	0.00	Bottom at 42.30'
MW-26A	12/2/2016	--	--	0.60	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	2/24/2017	--	--	0.50	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	4/21/2017	--	--	0.60	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	7/18/2017	--	--	0.55	0.00	0.00	0.00	Bottom at 41.90'
MW-26A	10/20/2017	--	--	0.70	0.00	0.00	0.00	Bottom at 42.25'
MW-26A	2/27/2018	--	--	0.70	0.00	0.00	0.00	Bottom at 42.25'
MW-26A	5/18/2018	--	--	0.50	0.00	0.00	0.00	Bottom at 42.25'
MW-26A	6/14/2018	--	--	--	0.06	0.44	0.06	Bail
MW-26A	8/10/2018	--	--	0.10	0.00	0.00	0.06	Bottom at 42.25'
MW-26A	11/19/2018	--	--	0.05	0.00	0.00	0.06	Bottom at 42.25'

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-27A	3/5/2008	--	--	--	--	--	--	Not Measured
MW-27A	4/10/2008	--	--	--	--	--	--	Not Measured
MW-27A	9/4/2008	--	--	0.80	3.00	49.50	3.00	
MW-27A	9/5/2008	--	--	4.40	2.00	0.50	5.00	
MW-27A	9/5/2008	--	--	1.50	0.25	0.50	5.25	
MW-27A	9/5/2008	--	--	1.00	0.20	0.80	5.45	
MW-27A	9/5/2008	--	--	1.50	0.25	0.75	5.70	
MW-27A	9/5/2008	--	--	1.00	0.15	0.60	5.85	
MW-27A	9/8/2008	--	--	3.58	2.50	0.40	8.35	
MW-27A	9/9/2008	--	--	1.00	0.10	0.15	8.45	
MW-27A	9/10/2008	--	--	4.50	0.35	0.15	8.80	
MW-27A	9/16/2008	--	--	2.70	0.25	0.00	9.05	
MW-27A	9/18/2008	--	--	3.00	1.25	1.25	10.30	
MW-27A	9/24/2008	--	--	4.00	0.30	0.00	10.60	
MW-27A	9/24/2008	--	--	2.60	1.50	0.75	12.10	
MW-27A	9/26/2008	--	--	3.50	1.10	0.65	13.20	
MW-27A	9/26/2008	--	--	1.00	0.20	0.80	13.40	
MW-27A	9/30/2008	--	--	3.10	1.00	1.00	14.40	2.5' up rope from the bailer (~5.5' from the bottom of well), there was a 6" cresote DNAPL staining on bailer on the rope.
MW-27A	9/30/2008	--	--	1.00	0.25	0.75	14.65	Bailer valve noted as malfunctioning; sticking due to DNAPL build-up. Bailed twice this day.
MW-27A	10/1/2008	--	--	4.00	0.25	0.00	14.90	
MW-27A	10/2/2008	--	--	3.50	0.70	1.40	15.60	Bailed twice this day.
MW-27A	10/2/2008	--	--	0.50	0.10	0.40	15.70	
MW-27A	10/3/2008	--	--	1.50	0.50	0.75	16.20	Bailed twice this day. Took 4 bailers with a trace of DNAPL in all. Not sure if was making it to the bottom of well or not.
MW-27A	10/3/2008	--	--	0.50	0.05	0.65	16.25	
MW-27A	10/14/2008	--	--	2.50	1.00	1.50	17.25	Bailed 3 times this day.
MW-27A	10/14/2008	--	--	0.10	0.05	0.40	17.30	
MW-27A	10/17/2008	--	--	2.80	2.10	0.40	19.40	
MW-27A	10/17/2008	--	--	1.20	0.15	0.60	19.55	Bailed twice this day
MW-27A	10/17/2008	--	--	0.60	0.10	0.40	19.65	
MW-27A	10/21/2008	--	--	3.00	2.00	1.25	21.65	
MW-27A	10/21/2008	--	--	1.00	0.15	0.50	21.80	
MW-27A	10/24/2008	--	--	1.00	0.15	1.35	21.95	
MW-27A	10/27/2008	8.05	--	1.20	0.10	0.15	22.05	
MW-27A	11/21/2008	--	--	2.80	2.00	1.00	24.05	
MW-27A	11/25/2008	--	--	2.00	0.50	1.50	24.55	Bailed twice this day
MW-27A	12/2/2008	--	--	2.50	0.60	0.90	25.15	
MW-27A	12/2/2008	--	--	0.15	0.05	0.74	25.20	
MW-27A	12/4/2008	--	--	1.00	0.15	0.85	25.35	
MW-27A	12/9/2008	--	--	3.00	0.40	1.10	25.75	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-27A	12/18/2008	--	--	3.00	0.50	1.00	26.25	Bailed twice this day
MW-27A	12/30/2008	--	--	2.80	0.50	0.75	26.75	
MW-27A	12/30/2008	--	--	1.50	0.15	0.85	26.90	
MW-27A	1/2/2009	6.83	--	3.00	2.00	1.00	28.90	
MW-27A	1/7/2009	--	--	2.90	0.60	0.90	29.50	
MW-27A	1/14/2009	--	--	2.50	1.50	0.50	31.00	
MW-27A	1/20/2009	--	--	3.50	1.00	0.75	32.00	
MW-27A	1/20/2009	--	--	3.00	0.45	0.30	32.45	DNAPL thickness greater than 3.0'
MW-27A	1/23/2009	--	--	2.00	0.20	0.80	32.65	DNAPL thickness greater than 3.0'
MW-27A	1/26/2009	--	--	3.00	2.00	0.50	34.65	DNAPL present
MW-27A	1/27/2009	--	--	3.00	2.75	0.75	37.40	DNAPL present. Bailed twice this day.
MW-27A	1/28/2009	--	--	2.00	0.25	1.25	37.65	
MW-27A	2/5/2009	--	--	1.30	3.00		40.65	DNAPL present. Bailed twice this day.
MW-27A	3/3/2009	7.34	--	6.00	2.50	1.00	43.15	
MW-27A	3/11/2009	6.34	7.42	2.80	1.20	1.30	44.35	DNAPL present
MW-27A	3/11/2009	--	--	1.00	0.13	1.37	44.48	
MW-27A	3/17/2009	7.77	7.84	3.00	0.55	1.95	45.03	
MW-27A	3/25/2009	6.83	6.84	3.00	0.75	0.80	45.78	
MW-27A	3/31/2009	6.39	6.95	3.00	1.85	1.15	47.63	
MW-27A	4/20/2009	6.73	7.25	2.80	0.75	1.50	48.38	
MW-27A	4/29/2009	7.05	7.05	3.00	1.50	1.50	49.88	
MW-27A	5/6/2009	7.00	7.06	3.00	1.50	1.75	51.38	
MW-27A	5/6/2009	NM	NM	3.00	0.75	1.00	52.13	
MW-27A	5/6/2009	NM	NM	0.80	0.20	0.80	52.33	
MW-27A	5/11/2009	6.95	6.95	3.00	1.25	2.00	53.58	
MW-27A	5/20/2009	6.64	6.70	2.50	1.25	3.75	54.83	
MW-27A	5/27/2009	7.26	7.30	1.20	0.15	1.10	54.98	
MW-27A	5/27/2009	NM	NM	2.00	0.15	0.85	55.13	
MW-27A	6/15/2009	6.82	6.85	0.10	0.25	1.00	55.38	
MW-27A	6/24/2009	6.48	6.61	1.50	0.40	1.10	55.78	
MW-27A	6/30/2009	6.71	6.93	2.50	0.85	1.90	56.63	
MW-27A	7/31/2009	7.73	10.04	3.00	2.00	1.25	58.63	
MW-27A	8/13/2009	7.67	8.27	3.00	2.20	0.80	60.83	
MW-27A	8/26/2009	8.24	8.22	0.10	1.25	1.50	62.08	
MW-27A	10/2/2009	7.02	7.02	2.50	0.75	1.75	62.83	
MW-27A	10/6/2009	7.39	7.48	1.50	1.55	1.45	64.38	
MW-27A	12/18/2009	7.53	7.81	5.50	2.15	1.10	66.53	
MW-27A	12/21/2009	7.39	7.57	1.50	0.55	0.95	67.08	
MW-27A	1/4/2010	8.01	9.23	0.67	1.97	2.53	69.05	
MW-27A	1/6/2010	8.12	8.31	2.50	0.88	1.37	69.93	
MW-27A	1/11/2010	8.20	8.92	3.00	1.05	1.20	70.98	
MW-27A	1/18/2010	8.02	8.73	5.00	1.93	1.32	72.91	DNAPL staining present on bailer

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-27A	1/25/2010	7.23	7.49	9.50	1.35	1.15	74.26	DNAPL staining present on bailer
MW-27A	2/2/2010	7.94	9.87	11.00	1.69	1.56	75.95	
MW-27A	2/2/2010	7.94	9.08	5.00	0.70	1.55	76.65	
MW-27A	2/4/2010	7.98	8.97	8.00	1.09	1.16	77.74	
MW-27A	2/4/2010	7.97	8.50	3.00	0.18	1.57	77.92	
MW-27A	2/5/2010	7.81	9.07	5.00	0.69	1.81	78.61	
MW-27A	2/22/2010	7.12	8.31	11.00	1.45	1.80	80.06	
MW-27A	3/2/2010	7.88	9.09	10.00	1.43	2.07	81.49	
MW-27A	3/2/2010	7.93	9.17	2.00	0.23	1.02	81.72	
MW-27A	3/4/2010	7.91	NM	9.00	1.23	2.02	82.95	
MW-27A	3/4/2010	8.53	11.32	1.00	0.14	1.11	83.09	
MW-27A	3/8/2010	7.98	9.18	9.50	1.20	0.80	84.29	
MW-27A	3/11/2010	7.96	9.27	8.00	1.05	1.20	85.34	
MW-27A	3/24/2010	7.29	6.70	7.75	0.90	1.35	86.24	
MW-27A	4/16/2010	7.51	8.63	11.00	1.24	0.51	87.48	
MW-27A	4/26/2010	7.11	7.32	4.00	0.27	0.73	87.75	
MW-27A	5/5/2010	7.46	7.54	0.00	0.00	0.50	87.75	DNAPL Globules and coarse sand presnet in bailer
MW-27A	6/1/2010	7.93	8.32	0.00	0.00	0.25	87.75	
MW-27A	6/9/2010	7.78	7.87	0.00	0.00	0.25	87.75	
MW-27A	8/3/2010	8.39	--	0.00	--	NB	87.75	Measured for DNAPL with tape
MW-27A	8/10/2010	8.43	--	0.00	--	NB	87.75	Measured for DNAPL with tape
MW-27A	8/17/2010	8.62	--	0.00	--	NB	87.75	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-27A	8/23/2010	8.37	--	0.40	--	NB	87.75	Bottom at 26.35' (to sand); Measured for DNAPL with tape
MW-27A	8/30/2010	8.49	--	0.00	--	NB	87.75	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-27A	9/17/2010	8.47	--	0.00	--	NB	87.75	Sand at 26.31'; Measured for DNAPL with tape
MW-27A	2/18/2011	7.92	--	2.29	--	NB	87.75	Measured for DNAPL with tape
MW-27A	2/22/2011	6.90	--	0.50	0.13	0.38	87.88	Sand at 24.75'
MW-27A	4/19/2011	6.63	--	1.50	--	NB	87.88	Sand at 25.50'
MW-27A	6/27/2011	6.88	--	2.10	--	NB	87.88	Sand in well
MW-27A	6/5/2012	--	--	0.50	--	NB	87.88	Bottom at 25.75'; sand in well.
*Abandoned April 2013, Replaced with RW-17								

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-29B	2/19/2009	--	--	2.00	0.25	1.00	0.25	Neon green water from tracer study, DNAPL present
MW-29B	3/3/2009	14.22	--	0.50	0.08	0.67	0.33	Neon green water from tracer study, DNAPL present
MW-29B	3/11/2009	10.86	15.33	0.25	0.08	0.92	0.41	
MW-29B	3/17/2009	10.10	14.06	0.30	0.10	0.90	0.51	
MW-29B	3/25/2009	10.79	17.94	0.50	0.05	1.00	0.56	Neon green water from tracer study
MW-29B	3/31/2009	10.83	15.34	0.80	0.10	0.65	0.66	
MW-29B	4/20/2009	6.44	11.44	0.01	0.00	0.75	0.66	Neon green water from tracer study
MW-29B	4/29/2009	10.08	14.56	0.10	0.00	0.75	0.66	
MW-29B	5/6/2009	11.08	15.45	0.00	0.00	0.25	0.66	
MW-29B	5/11/2009	11.53	13.06	0.00	0.00	0.25	0.66	DNAPL staining on bailer
MW-29B	5/20/2009	10.48	11.98	0.01	0.01	0.24	0.67	Yellow water from tracer study
MW-29B	5/27/2009	10.96	12.29	0.01	0.01	0.24	0.68	Neon green water from tracer study
MW-29B	6/15/2009	10.84	12.17	0.00	0.00	0.25	0.68	Neon green water from tracer study
MW-29B	6/24/2009	10.43	13.48	0.12	0.03	0.47	0.71	
MW-29B	6/30/2009	10.49	12.28	0.05	0.01	0.24	0.72	
MW-29B	7/31/2009	8.84	10.47	0.00	0.00	0.25	0.72	DNAPL staining on bailer
MW-29B	8/13/2009	10.89	15.51	0.30	0.04	0.71	0.76	
MW-29B	8/26/2009	9.67	11.20	0.01	0.00	0.25	0.76	Yellow water from tracer study
MW-29B	10/2/2009	7.93	9.45	0.10	0.01	0.24	0.77	0.3' dk. Grey water, yellow water from tracer study
MW-29B	10/6/2009	8.08	9.62	0.00	0.00	0.25	0.77	DNAPL on bottom of bailer
MW-29B	12/18/2009	18.30	20.04	0.00	0.00	0.25	0.77	DNAPL staining on bailer
MW-29B	12/28/2009	NM	NM	0.25	0.06	0.18	0.83	
MW-29B	1/26/2010	11.31	18.77	0.20	0.10	1.15	0.93	
MW-29B	2/3/2010	10.45	12.87	0.00	0.00	0.25	0.93	DNAPL staining on bailer
MW-29B	2/22/2010	8.22	13.80	0.25	0.03	0.97	0.96	
MW-29B	3/8/2010	9.18	10.93	0.10	0.01	0.49	0.97	
MW-29B	4/16/2010	10.56	18.72	0.10	0.02	0.73	0.99	
MW-29B	6/1/2010	11.58	14.60	0.25	0.02	0.48	1.01	
MW-29B	7/6/2010	10.83	13.96	0.16	0.02	0.48	1.03	
MW-29B	8/3/2010	10.09	11.61	0.00	0.00	0.25	1.03	
MW-29B	8/10/2010	9.82	11.77	0.00	0.00	0.25	1.03	
MW-29B	8/30/2010	9.45	--	0.00	--	NB	1.03	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-29B	2/22/2011	8.32	--	0.00	--	NB	1.03	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-29B	3/4/2011	7.85	--	0.01	0.01	0.24	1.04	
MW-29B	3/28/2011	9.95	--	0.75	0.15	0.60	1.19	
MW-29B	4/4/2011	10.80	--	0.90	0.01	0.50	1.20	
MW-29B	4/12/2011	10.76	--	0.80	0.10	0.40	1.30	
MW-29B	4/19/2011	11.05	--	0.90	0.01	0.07	1.31	0.7' DNAPL staining on bailer on outside of bailer; Bottom at 37.05'
MW-29B	4/25/2011	10.36	--	0.50	0.06	0.44	1.37	
MW-29B	5/9/2011	10.36	--	0.30	0.01	0.25	1.38	
MW-29B	5/18/2011	11.07	--	0.20	0.00	0.25	1.38	Bottom at 36.96'
MW-29B	6/6/2011	11.18	--	0.90	--	NB	1.38	Bottom at 36.99'; Measured for DNAPL with tape
MW-29B	6/7/2011	11.17	--	0.90	0.04	0.21	1.42	
MW-29B	6/20/2011	10.62	--	0.20	0.01	0.24	1.43	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-29B	6/27/2011	11.99	--	0.50	0.05	0.45	1.48	
MW-29B	7/8/2011	--	--	0.20	0.02	0.23	1.50	
MW-29B	7/13/2011	10.49	--	0.30	0.02	0.48	1.52	
MW-29B	7/18/2011	10.65	--	0.10	0.0025	0.2475	1.52	
MW-29B	7/25/2011	10.52	--	0.20	0.0025	0.2475	1.53	
MW-29B	8/5/2011	18.20	--	0.01	0.00	0.25	1.53	Trace amount of DNAPL
MW-29B	8/15/2011	9.99	--	0.20	0.0025	0.2475	1.53	
MW-29B	8/24/2011	9.55	--	0.20	0.0025	0.2475	1.53	
MW-29B	9/6/2011	9.37	--	0.20	0.0025	0.2475	1.53	
MW-29B	9/12/2011	9.63	--	0.20	0.0025	0.2475	1.54	
MW-29B	9/19/2011	9.32	--	0.00	0.0025	0.2475	1.54	DNAPL staining on bailer
MW-29B	10/6/2011	9.62	--	0.00	0.0000	0.2500	1.54	Trace amount of DNAPL; green water
MW-29B	10/19/2011	8.93	--	0.20	0.0025	0.2475	1.54	
MW-29B	10/24/2011	8.60	--	0.10	0.0025	0.2475	1.54	
MW-29B	11/8/2011	7.77	--	0.00	0.0000	0.2500	1.54	Slight DNAPL staining on bailer, sheen
MW-29B	6/5/2012	--	--	1.30	--	NB	1.54	Bottom at 36.90, need to resurvey.
MW-29B	11/14/2012	--	--	1.50	--	NB	1.54	
MW-29B	1/9/2013	--	--	1.30	--	NB	1.54	Bottom at 36.55'
MW-29B	4/18/2013	--	--	2.00	--	NB	1.54	
MW-29B	8/23/2013	--	--	3.80	--	NB	1.54	Bottom at 37.80', 5' of sediment in well
MW-29B	10/11/2013	--	--	--	2.9300	27.0700	4.47	Air Lift, Bottom at 41.05'
MW-29B	11/25/2013	--	--	0.00	--	NB	4.47	Bottom at 39.90', soft
MW-29B	4/16/2014	--	--	2.00	0.0000	0.0000	4.47	Bottom at 39.7'
MW-29B	12/29/2014	--	--	1.80	0.0000	0.0000	4.47	Bottom at 40.40'
MW-29B	3/4/2015	--	--	2.10	0.0000	0.0000	4.47	Bottom at 40.40'
MW-29B	5/19/2015	--	--	2.40	0.0000	0.0000	4.47	Bottom at 40.40'
MW-29B	7/13/2015	--	--	2.40	0.0000	0.0000	4.47	
MW-29B	1/6/2016	--	--	3.25	0.0000	0.0000	4.47	Bottom at 39.30'
MW-29B	2/10/2016	--	--	3.60	0.0000	0.0000	4.47	Bottom at 39.40'
MW-29B	6/22/2016	--	--	4.30	0.0000	0.0000	4.47	Bottom at 39.30'
MW-29B	6/29/2016	--	--	--	0.6000	0.6500	5.07	Bail
MW-29B	9/9/2016	--	--	0.60	0.0000	0.0000	5.07	Bottom at 39.40'
MW-29B	10/21/2016	--	--	0.90	0.0000	0.0000	5.07	Bottom at 39.85'
MW-29B	12/2/2016	--	--	1.10	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	2/24/2017	--	--	1.00	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	4/21/2017	--	--	1.10	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	7/21/2017	--	--	1.90	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	10/20/2017	--	--	2.80	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	2/27/2018	--	--	3.90	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	5/18/2018	--	--	5.20	0.0000	0.0000	5.07	Bottom at 39.90'
MW-29B	6/14/2018	--	--	--	0.9600	0.2900	6.03	Bail
MW-29B	8/10/2018	--	--	0.70	0.0000	0.0000	6.03	Bottom at 39.90'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-29B	11/19/2018	--	--	1.10	0.0000	0.0000	6.03	Bottom at 39.90'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-36B	9/23/2010	--	--	0.20	0.02	0.23	0.02	
MW-36B	9/24/2010	19.31	--	0.20	0.02	0.23	0.04	
MW-36B	10/1/2010	19.28	--	0.33	0.03	0.22	0.07	
MW-36B	10/5/2010	19.28	20.85	0.40	0.04	0.21	0.11	
MW-36B	10/12/2010	19.29	20.26	0.40	0.04	0.21	0.15	
MW-36B	10/18/2010	19.24	20.24	0.40	0.04	0.21	0.19	
MW-36B	10/29/2010	18.26	--	0.40	--	NB	0.19	Measured for DNAPL with tape
MW-36B	12/10/2010	18.98	--	1.00	0.09	0.41	0.28	
MW-36B	12/28/2010	19.00	--	1.25	0.04	0.71	0.32	
MW-36B	1/3/2011	18.07	--	0.40	0.04	0.46	0.36	
MW-36B	1/10/2011	18.95	--	0.20	0.02	0.48	0.38	
MW-36B	1/17/2011	19.01	--	0.15	0.01	0.24	0.39	
MW-36B	1/28/2011	--	--	0.20	--	NB	0.39	Measured for DNAPL with tape
MW-36B	2/18/2011	18.89	--	0.51	--	NB	0.39	Measured for DNAPL with tape
MW-36B	2/22/2011	15.74	--	0.40	0.185	0.07	0.58	
MW-36B	3/4/2011	17.64	--	0.10	0.01	0.24	0.59	
MW-36B	3/18/2011	18.23	--	0.60	0.05	0.45	0.64	
MW-36B	3/28/2011	18.75	--	0.01	0.00	0.25	0.64	
MW-36B	4/4/2011	16.35	--	0.01	0.00	0.25	0.64	
MW-36B	4/12/2011	15.00	--	0.00	0.00	0.25	0.64	DNAPL staining on bailer
MW-36B	4/19/2011	11.42	--	0.01	0.01	0.07	0.65	Bottom at 36.80'
MW-36B	5/9/2011	17.81	--	0.05	0.01	0.24	0.66	
MW-36B	5/18/2011	18.28	--	0.00	--	NB	0.66	Bottom at 36.82'; Measured for DNAPL with tape
MW-36B	6/6/2011	18.91	--	0.30	--	NB	0.66	Bottom at 36.78'; Measured for DNAPL with tape
MW-36B	6/7/2011	18.84	--	0.20	0.02	0.23	0.68	
MW-36B	6/15/2011	18.79		0.10	0.01	0.24	0.69	
MW-36B	6/20/2011	18.03	--	0.30	0.01	0.24	0.70	
MW-36B	6/27/2011	15.80	--	0.20	0.01	0.24	0.71	
MW-36B	7/8/2011	18.90	--	0.10	0.008	0.242	0.72	Flouresents present in well due to tracer study
MW-36B	7/11/2011	18.99	--	0.50	0.04	0.46	0.76	
MW-36B	7/13/2011	19.07	--	0.20	0.003	0.490	0.76	
MW-36B	7/18/2011	19.12	--	0.30	0.0075	0.2425	0.77	
MW-36B	7/25/2011	18.87	--	0.30	0.00	0.25	0.77	
MW-36B	8/5/2011	19.30	--	0.10	0.005	0.25	0.78	
MW-36B	8/15/2011	19.15	--	0.50	0.013	0.49	0.79	
MW-36B	8/24/2011	19.10	--	0.40	0.0125	0.2375	0.80	
MW-36B	9/6/2011	19.39	--	0.40	0.0125	0.2375	0.81	
MW-36B	9/12/2011	19.31	--	0.20	0.0025	0.2475	0.82	
MW-36B	9/19/2011	18.56	--	0.20	0.08	0.17	0.90	
MW-36B	10/6/2011	19.16	--	0.20	0.0125	0.2375	0.91	
MW-36B	6/5/2012	--	--	1.40	--	NB	0.91	Bottom at 36.99'

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Bloomington, Indiana

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MW-36B	11/14/2012	--	--	2.00	--	NB	0.91	
MW-36B	4/18/2013	--	--	2.00	--	NB	0.91	
MW-36B	8/23/2013	--	--	2.00	--	NB	0.91	Bottom at 36.95'
MW-36B	4/16/2014	--	--	2.00	0.0000	0.0000	0.91	Bottom at 36.9'
MW-36B	12/29/2014	--	--	1.70	0.0000	0.0000	0.91	Bottom at 37.45'
MW-36B	3/4/2015	--	--	2.30	0.0000	0.0000	0.91	Bottom at 37.10'
MW-36B	5/19/2015	--	--	2.10	0.0000	0.0000	0.91	Bottom at 37.10'
MW-36B	1/6/2016	--	--	2.00	0.0000	0.0000	0.91	Bottom at 37.10'
MW-36B	2/19/2016	--	--	2.20	0.0000	0.0000	0.91	Bottom at 37.15'
MW-36B	6/22/2016	--	--	2.70	0.0000	0.0000	0.91	Bottom at 37.15'
MW-36B	6/29/2016	--	--	--	0.3500	0.9000	1.26	Bail
MW-36B	9/9/2016	--	--	0.80	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	10/21/2016	--	--	1.30	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	12/2/2016	--	--	2.30	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	2/24/2017	--	--	2.50	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	4/21/2017	--	--	2.10	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	7/18/2017	--	--	2.40	0.0000	0.0000	1.26	Bottom at 37.15'
MW-36B	10/20/2017	--	--	2.40	0.0000	0.0000	1.26	Bottom at 37.45'
MW-36B	2/27/2018	--	--	2.20	0.0000	0.0000	1.26	Bottom at 37.45'
MW-36B	5/18/2018	--	--	2.10	0.0000	0.0000	1.26	Bottom at 37.45'
MW-36B	6/14/2018	--	--	--	0.3750	0.3750	1.64	Bail
MW-36B	8/10/2018	--	--	2.10	0.0000	0.0000	1.64	Bottom at 37.45'
MW-36B	11/19/2018	--	--	2.40	0.0000	0.0000	1.64	Bottom at 37.45'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-36C	4/29/2010	49.48	NM	0.25	0.04	0.71	0.04	
MW-36C	5/11/2010	48.22	49.49	0.33	0.03	0.47	0.07	
MW-36C	6/1/2010	44.88	50.12	0.33	0.03	0.47	0.10	
MW-36C	6/9/2010	43.44	49.56	0.17	0.01	0.49	0.11	2" DNAPL staining on bailer
MW-36C	6/24/2010	43.66	48.73	0.33	0.01	0.49	0.12	
MW-36C	7/6/2010	39.65	44.13	0.25	0.02	0.48	0.14	
MW-36C	7/13/2010	39.13	43.92	0.25	0.02	0.48	0.16	
MW-36C	7/20/2010	38.62	41.12	0.08	0.01	0.24	0.17	
MW-36C	8/3/2010	34.97	37.42	0.20	0.02	0.48	0.19	
MW-36C	8/10/2010	35.45	36.70	0.01	0.00	0.25	0.19	
MW-36C	8/17/2010	35.21	--	0.00	--	NB	0.19	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-36C	8/23/2010	33.53	--	1.00	--	NB	0.19	Bottom at 63.50'; Measured for DNAPL with tape
MW-36C	8/30/2010	32.09	--	0.00	--	NB	0.19	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-36C	9/17/2010	29.14	31.81	0.25	0.02	0.48	0.21	
MW-36C	9/24/2010	38.68	--	0.20	0.02	0.23	0.23	
MW-36C	10/1/2010	37.66	38.95	0.00	0.00	0.25	0.23	DNAPL staining on bailer
MW-36C	10/5/2010	37.69	39.00	0.00	0.00	0.25	0.23	DNAPL staining on bailer
MW-36C	10/12/2010	36.74	--	0.00	0.00	0.25	0.23	DNAPL staining on bailer; bottom at 63.58'
MW-36C	10/18/2010	36.31	--	0.00	0.00	0.25	0.23	DNAPL staining on bailer
MW-36C	10/29/2010	34.40	--	0.00	--	NB	0.23	Measured for DNAPL with tape
MW-36C	12/10/2010	25.85	--	0.00	--	NB	0.23	Measured for DNAPL with tape
MW-36C	12/28/2010	32.97	--	0.20	0.01	0.24	0.24	
MW-36C	1/3/2011	18.07	--	0.10	0.01	0.24	0.25	
MW-36C	1/10/2011	32.24	--	0.00	0.01	0.24	0.26	
MW-36C	1/17/2011	31.77	--	0.00	0.00	0.25	0.26	DNAPL globules present in bailer
MW-36C	1/28/2011	--	--	0.00	--	NB	0.26	Measured for DNAPL with tape
MW-36C	2/18/2011	25.95	--	0.78	--	NB	0.26	Measured for DNAPL with tape
MW-36C	2/22/2011	25.33	--	0.14	0.01	0.24	0.27	
MW-36C	3/4/2011	24.73	--	0.00	0.00	0.25	0.27	DNAPL staining on bailer
MW-36C	3/18/2011	31.42	--	0.00	0.01	0.24	0.28	
MW-36C	3/28/2011	32.35	--	0.00	0.00	0.25	0.28	
MW-36C	4/4/2011	29.83	--	0.00	0.00	0.25	0.28	DNAPL staining on bailer
MW-36C	4/12/2011	29.19	--	0.00	0.00	0.25	0.28	DNAPL staining on bailer
MW-36C	4/19/2011	28.79	--	0.00	--	NB	0.28	Bottom at 63.04'; Measured for DNAPL with tape
MW-36C	5/9/2011	24.76	--	0.15	0.01	0.24	0.29	
MW-36C	5/18/2011	25.93	--	0.00	--	NB	0.29	Measured for DNAPL with tape
MW-36C	6/6/2011	23.28	--	0.00	--	NB	0.29	Measured for DNAPL with tape
MW-36C	6/7/2011	22.15	--	0.00	0.00	0.25	0.29	
MW-36C	6/15/2011	21.04	--	0.00	--	NB	0.29	Measured for DNAPL with tape
MW-36C	6/20/2011	22.75	--	0.00	0.00	0.25	0.29	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-36C	6/27/2011	27.03	--	0.00	0.00	0.50	0.29	DNAPL staining on bailer
MW-36C	7/8/2011	26.85	--	0.00	0.00	0.25	0.29	DNAPL staining on bailer
MW-36C	7/11/2011	28.08	--	0.00	0.00	0.25	0.29	
MW-36C	7/18/2011	28.20	--	0.00	0.00	0.25	0.29	DNAPL staining on bailer
MW-36C	7/25/2011	29.09	--	0.00	0.00	0.25	0.29	DNAPL staining on bailer
MW-36C	8/5/2011	28.42	--	0.00	0.00	0.25	0.29	Trace amount of DNAPL in bailer
MW-36C	8/24/2011	26.51	--	0.20	0.0008	0.079	0.29	0.08gal bailer used
MW-36C	10/6/2011	28.15	--	0.00	0.00	0.25	0.29	Trace amount of DNAPL in bailer
MW-36C	6/5/2012	--	--	0.50	--	NB	0.29	Bottom at 63.35'
MW-36C	11/14/2012	--	--	0.50	--	NB	0.29	
MW-36C	4/18/2013	--	--	0.00	--	NB	0.29	Globs
MW-36C	8/23/2013	--	--	0.00	--	NB	0.29	Bottom at 63.25'
MW-36C	4/16/2014	--	--	0.40	0.00	0.00	0.29	Bottom at 63.35'
MW-36C	12/31/2014	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.68'
MW-36C	3/4/2015	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.35'
MW-36C	5/19/2015	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.40'
MW-36C	1/6/2016	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.45'
MW-36C	2/19/2016	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.45'
MW-36C	6/22/2016	--	--	0.00	0.00	0.00	0.29	Trace on probe; bottom at 63.45'
MW-36C	9/9/2016	--	--	0.00	0.00	0.00	0.29	Bottom at 64.00'
MW-36C	10/21/2016	--	--	0.00	0.00	0.00	0.29	Bottom at 63.45'
MW-36C	12/2/2016	--	--	0.00	0.00	0.00	0.29	Bottom at 64.50'
MW-36C	2/24/2017	--	--	0.20	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	4/21/2017	--	--	0.20	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	7/18/2017	--	--	0.05	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	10/20/2017	--	--	0.05	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	2/27/2018	--	--	0.20	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	5/18/2018	--	--	0.40	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	8/10/2018	--	--	0.00	0.00	0.00	0.29	Bottom at 63.50'
MW-36C	11/19/2018	--	--	0.40	0.00	0.00	0.29	Bottom at 63.50'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-37C	10/6/2011	NM	--	0.00	0.00	0.25	0.00	No odor, silty
MW-37C	10/10/2011	NM	--	0.00	0.00	0.25	0.00	Odor
MW-37C	10/19/2011	NM	--	0.00	0.00	0.25	0.00	Odor, silty
MW-37C	10/24/2011	26.75	--	0.00	0.00	0.25	0.00	Odor, silty
MW-37C	11/8/2011	NM	--	0.00	0.00	0.25	0.00	Odor, silty
MW-37C	4/16/2014	--	--	0.00	0.00	0.00	0.00	Trace product on bottom 1-2' of probe. Bottom at 48.9'
MW-37C	12/29/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 49.30'
MW-37C	3/4/2015	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	1/6/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.05'
MW-37C	2/19/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	6/22/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	7/18/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	10/20/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	2/27/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	5/18/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	8/10/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'
MW-37C	11/19/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.00'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-39A	4/14/2010	31.75	NM	2.00	0.25	1.00	0.25	
MW-39A	4/21/2010	35.03	37.60	0.50	0.10	0.15	0.35	
MW-39A	5/11/2010	30.59	35.67	3.33	0.57	0.68	0.92	
MW-39A	6/1/2010	28.78	35.78	3.25	0.66	0.84	1.58	
MW-39A	6/9/2010	29.19	35.91	2.00	0.21	0.79	1.79	
MW-39A	6/24/2010	30.35	36.01	3.50	0.59	0.66	2.38	
MW-39A	7/6/2010	28.22	34.61	3.00	0.29	0.46	2.67	
MW-39A	7/13/2010	27.97	35.01	3.00	0.33	0.67	3.00	
MW-39A	7/20/2010	25.73	34.01	3.00	0.38	0.62	3.38	
MW-39A	8/3/2010	25.69	28.19	1.00	0.09	0.41	3.47	
MW-39A	8/10/2010	24.07	29.16	1.50	0.29	0.96	3.76	
MW-39A	8/17/2010	26.81	--	1.25	--	NB	3.76	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
MW-39A	8/23/2010	23.25	--	2.50	--	NB	3.76	Bottom at 37.75'; Measured for DNAPL with tape
MW-39A	9/17/2010	15.62	20.32	2.70	0.53	0.72	4.29	
MW-39A	10/1/2010	23.13	--	3.25	0.51	0.74	4.80	
MW-39A	10/5/2010	25.35	31.12	2.25	0.58	0.92	5.38	
MW-39A	10/12/2010	27.95	--	3.40	0.63	0.62	6.01	
MW-39A	10/18/2010	28.04	--	3.00	0.65	0.85	6.66	
MW-39A	10/29/2010	27.95	--	3.50	--	NB	6.66	Bottom at 37.75'; Measured for DNAPL with tape
MW-39A	12/28/2010	15.95	--	3.50	0.55	0.70	7.21	
MW-39A	1/17/2011	9.50	--	4.25	0.43	0.57	7.64	
MW-39A	1/28/2011	--	--	2.00	--	NB	7.64	Measured for DNAPL with tape
MW-39A	3/18/2011	13.75	--	4.25	0.58	0.42	8.22	
MW-39A	4/4/2011	11.97	--	0.30	0.20	0.30	8.42	
MW-39A	4/12/2011	11.53	--	1.50	0.25	0.25	8.67	
MW-39A	4/19/2011	13.52	--	2.50	0.31	0.44	8.98	Bottom at 37.45'
MW-39A	5/9/2011	13.45	--	2.70	0.41	0.34	9.39	
MW-39A	5/16/2011	15.94	--	1.50	0.15	0.60	9.54	
MW-39A	6/16/2011	--	--	2.20	0.34	0.41	9.88	
MW-39A	6/20/2011	6.56	--	2.00	0.21	0.54	10.09	
MW-39A	6/27/2011	13.69	--	0.40	0.01	0.24	10.10	
MW-39A	7/8/2011	10.00	--	0.30	0.04	0.21	10.14	
MW-39A	7/11/2011	12.81	--	0.40	0.02	0.49	10.15	
MW-39A	7/13/2011	15.40	--	0.40	0.05	0.45	10.20	
MW-39A	7/18/2011	17.17	--	0.70	0.08	0.43	10.28	
MW-39A	7/25/2011	18.18	--	0.90	0.11	0.64	10.39	
MW-39A	8/5/2011	19.38	--	1.20	0.80	1.20	11.19	
MW-39A	8/15/2011	20.06	--	2.00	0.14	0.61	11.33	
MW-39A	8/24/2011	19.92	--	1.20	0.13	0.63	11.45	
MW-39A	9/6/2011	18.31	--	1.30	0.28	0.23	11.73	
MW-39A	9/12/2011	19.64	--	1.00	0.21	0.54	11.94	

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MW-39A	9/19/2011	NM	--	--	--	--	11.94	Location underwater
MW-39A	10/10/2011	23.92	--	1.40	0.20	0.55	12.14	
MW-39A	10/19/2011	16.88	--	0.40	0.08	0.43	12.22	
MW-39A	10/24/2011	15.37	--	0.30	0.11	0.39	12.32	
MW-39A	11/8/2011	15.05	--	0.08	0.01	0.24	12.34	
MW-39A	6/5/2012	--	--	0.50	--	NB	12.34	Bottom at 37.60'
MW-39A	11/14/2012	--	--	0.50	--	NB	12.34	
MW-39A	4/18/2013	--	--	0.60	--	NB	12.34	
MW-39A	8/23/2013	--	--	0.50	--	NB	12.34	Bottom at 37.50'
MW-39A	4/16/2014	--	--	0.50	0.00	0.00	12.34	Bottom at 37.5'
MW-39A	12/29/2014	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	3/4/2015	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	5/19/2015	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	1/6/2016	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	2/19/2016	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	6/22/2016	--	--	0.60	0.00	0.00	12.34	Bottom at 37.75'
MW-39A	9/9/2016	--	--	0.00	0.00	0.00	12.34	Bottom at 37.15'
MW-39A	10/21/2016	--	--	0.60	0.00	0.00	12.34	Bottom at 37.80'
MW-39A	12/1/2016	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	2/24/2017	--	--	0.50	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	4/21/2017	--	--	0.50	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	7/18/2017	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	10/20/2017	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	2/27/2018	--	--	0.60	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	5/18/2018	--	--	0.50	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	8/10/2018	--	--	0.10	0.00	0.00	12.34	Bottom at 37.70'
MW-39A	11/10/2018	--	--	0.50	0.00	0.00	12.34	Bottom at 37.70'

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-48A	1/11/2011	47.75	--	2.25	0.19	0.06	0.19	
MW-48A	1/12/2011	--	--	1.00	0.08	0.17	0.27	
MW-48A	4/18/2011	23.65	33.80	3.80	0.68	1.07	0.95	Bottom at 71.05'
MW-48A	4/18/2011	33.70	38.00	1.00	0.10	0.65	1.05	
MW-48A	4/18/2011	37.85	40.70	0.00	0.00	0.50	1.05	
MW-48A	4/18/2011	40.30	41.50	0.00	0.00	0.25	1.05	
MW-48A	4/18/2011	41.30	42.60	0.00	0.00	0.25	1.05	Bailed five times this day
MW-48A	4/19/2011	38.60	44.40	1.50	0.20	0.80	1.25	
MW-48A	4/19/2011	44.05	45.45	0.20	0.02	0.23	1.27	
MW-48A	4/19/2011	45.00	46.15	0.10	0.01	0.24	1.28	
MW-48A	4/19/2011	45.80	47.00	0.10	0.01	0.24	1.29	Bailed four times this day
MW-48A	4/20/2011	42.70	46.95	0.50	0.07	0.68	1.36	
MW-48A	4/20/2011	46.45	49.05	0.10	0.02	0.48	1.38	
MW-48A	4/20/2011	48.55	49.70	0.00	0.00	0.25	1.38	Bailed three times this day
MW-48A	4/21/2011	45.40	48.30	1.00	0.09	0.41	1.47	
MW-48A	4/25/2011	38.12	--	3.25	0.50	1.00	1.97	
MW-48A	4/26/2011	43.70	--	1.60	0.26	1.24	2.23	
MW-48A	4/27/2011	46.95	--	1.30	0.17	0.83	2.40	
MW-48A	4/29/2011	43.62	--	2.20	0.38	0.87	2.78	
MW-48A	5/4/2011	34.95	--	2.70	0.45	1.30	3.23	
MW-48A	5/9/2011	34.10	--	3.50	0.57	1.18	3.80	
MW-48A	5/10/2011	39.79	--	1.00	0.11	0.64	3.91	
MW-48A	5/11/2011	41.43	--	1.00	0.11	0.64	4.02	
MW-48A	5/12/2011	41.90	--	0.80	0.12	1.13	4.14	
MW-48A	5/13/2011	45.53	--	0.80	0.13	1.12	4.27	
MW-48A	5/16/2011	38.92	--	1.50	0.23	0.77	4.50	
MW-48A	5/19/2011	35.59	--	2.10	0.53	0.22	5.03	
MW-48A	5/24/2011	30.71	--	1.50	0.23	0.77	5.26	
MW-48A	5/31/2011	29.71	--	1.80	0.28	0.72	5.54	
MW-48A	6/2/2011	31.99	--	0.60	0.10	0.90	5.64	
MW-48A	6/7/2011	30.58	--	1.70	0.21	0.79	5.85	
MW-48A	6/9/2011	--	--	0.75	0.14	0.86	5.99	
MW-48A	6/14/2011	30.99	--	0.75	0.15	1.10	6.14	
MW-48A	6/15/2011	35.88	--	1.00	0.15	0.85	6.29	
MW-48A	6/16/2011	39.05	--	0.40	0.07	0.93	6.36	
MW-48A	6/20/2011	34.74	--	3.00	0.28	0.72	6.64	Bailed twice this day
MW-48A	6/20/2011	39.65	--	0.50	0.03	0.47	6.67	
MW-48A	6/21/2011	40.28	--	0.50	0.07	0.93	6.74	Bailed twice this day
MW-48A	6/21/2011	51.84	--	0.30	0.03	0.47	6.77	
MW-48A	6/22/2011	54.10	--	0.40	0.03	0.47	6.80	
MW-48A	6/23/2011	47.79	--	1.00	0.11	0.89	6.91	
MW-48A	6/24/2011	47.58	--	0.10	0.01	0.49	6.92	

Notes:
fbtoc = feet below top of casing.
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DTW = depth to water, NB = not bailed, NM = not measured.

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-48A	6/27/2011	38.55	--	1.70	0.17	0.83	7.09	Bailed twice this day
MW-48A	6/27/2011	--	--	0.00	0.00	0.25	7.09	
MW-48A	6/28/2011	41.45	--	2.30	0.33	0.67	7.42	Bailed twice this day
MW-48A	6/28/2011	--	--	0.50	0.03	0.22	7.45	
MW-48A	6/29/2011	45.60	--	1.50	0.20	1.05	7.65	
MW-48A	6/30/2011	46.84	--	0.85	0.11	0.89	7.76	
MW-48A	7/1/2011	47.49	--	0.90	0.07	0.68	7.83	Bailed twice this day
MW-48A	7/1/2011	50.85	--	0.20	0.01	0.49	7.84	Last time to bail well, per home owner
MW-48A	9/26/2011	33.10	--	4.10	0.74	0.76	8.58	Bottom at 71.10'
MW-48A	7/13/2015	--	--	12.00	0.00	0.00	8.58	
MW-48A	7/16/2015	--	--	--	3.25	1.75	11.83	Bailed out all DNAPL in well
MW-48A	7/17/2015	--	--	0.00	0.00	0.00	11.83	
MW-48A	9/9/2016	--	--	16.55	0.00	0.00	11.83	Bottom at 72.74'
MW-48A	10/21/2016	--	--	12.50	0.00	0.00	11.83	Bottom at 72.15'
MW-48A	12/2/2016	--	--	18.50	0.00	0.00	11.83	Bottom at 71.50'
MW-48A	2/24/2017	--	--	18.60	0.00	0.00	11.83	Bottom at 71.50'
MW-48A	4/21/2017	--	--	18.80	0.00	0.00	11.83	Bottom at 71.50'
MW-48A	7/18/2017	--	--	17.00	0.00	0.00	11.83	Bottom at 71.50'
MW-48A	10/20/2017	--	--	20.20	0.00	0.00	11.83	Bottom at 72.00'
MW-48A	2/27/2018	--	--	15.20	0.00	0.00	11.83	Bottom at 72.00'
MW-48A	5/18/2018	--	--	12.40	0.00	0.00	11.83	Bottom at 72.00'
MW-48A	8/10/2018	--	--	15.20	0.00	0.00	11.83	Bottom at 72.00'
MW-48A	11/19/2018	--	--	13.70	0.00	0.00	11.83	Bottom at 72.00'

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-51A	8/17/2011	14.94	--	2.50	0.38	0.62	0.38	
MW-51A	8/18/2011	11.05	--	2.70	0.85	0.90	1.23	
MW-51A	8/24/2011	10.64	--	3.25	0.75	0.50	1.98	
MW-51A	8/29/2011	10.82	--	NM	3.45	1.55	5.43	
MW-51A	9/6/2011	10.90	--	2.80	1.25	0.75	6.68	
MW-51A	9/12/2011	10.92	--	4.0	0.88	0.63	7.56	
MW-51A	9/19/2011	10.59	--	2.5	0.99	0.51	8.54	
MW-51A	10/6/2011	10.60	--	8.0	2.813	0.187	11.36	Took over an hour to bail
MW-51A	10/10/2011	10.65	--	5.0	2.05	0.45	13.41	
MW-51A	10/14/2011	10.33	--	7.5	1.78	0.23	15.18	
MW-51A	10/17/2011	10.51	--	7.2	1.89	0.36	17.07	
MW-51A	10/19/2011	10.03	--	8.0	1.68	0.33	18.74	
MW-51A	10/24/2011	10.04	--	7.5	1.40	0.85	20.14	
MW-51A	10/28/2011	9.70	--	9.6	3.65	0.35	23.79	DNAPL Recovery Test preformed; See separate 51A spreadsheet.
MW-51A	10/31/2011	9.88	--	8.7	9.10	8.15	32.89	TD = 59.40' An accumulation test was preformed this day. Removal(gal.) are total throughout day. See separate 51A spreadsheet.
MW-51A	11/3/2011	12.56	--	11.7	3.92	0.08	36.81	TD = 59.30'
MW-51A	11/4/2011	9.99	--	12.6	0.00	0.00	36.81	Did not bail
MW-51A	11/7/2011	10.18	--	12.0	4.80	3.20	41.61	TD = 59.44'; Used pump to recover DNAPL. Pump stopped working, DNAPL thickness went up to 20.0'
MW-51A	11/8/2011	20.40	--	24.1	2.25	0.50	43.86	TD = 59.45'
MW-51A	11/9/2011	11.33	--	23.9	4.25	0.00	48.11	Bailed product down to 15'
MW-51A	6/5/2012	--	--	10.8	--	NB	48.11	Bottom at 58.42', need to resurvey.
MW-51A	7/31/2012	--	--	10.00	9.00	0.00	57.11	
MW-51A	8/1/2012	--	--	18.00	5.00	0.00	62.11	
MW-51A	8/23/2012	--	--	10.25	7.25	9.21	69.36	
MW-51A	8/24/2012	--	--	19.30	4.75	4.77	74.11	
MW-51A	8/27/2012	--	--	12.50	7.50	6.67	81.61	
MW-51A	8/28/2012	--	--	31.00	--	NB	81.61	
MW-51A	8/29/2012	--	--	29.00	9.73	0.00	91.34	
MW-51A	8/30/2012	--	--	31.00	7.25	0.22	98.59	
MW-51A	8/31/2012	--	--	32.00	9.76	0.00	108.35	
MW-51A	9/4/2012	--	--	32.00	9.24	0.00	117.59	
MW-51A	9/10/2012	--	--	32.00	9.75	0.50	127.34	
MW-51A	9/11/2012	--	--	36.00	9.75	0.00	137.09	
MW-51A	9/12/2012	--	--	33.00	9.25	0.00	146.34	
MW-51A	9/13/2012	--	--	33.00	7.13	0.00	153.47	
MW-51A	9/14/2012	--	--	12.00	1.50	4.81	154.97	
MW-51A	9/17/2012	--	--	13.50	--	NB	154.97	
MW-51A	9/18/2012	--	--	13.50	4.44	1.70	159.41	
MW-51A	9/27/2012	--	--	14.50	4.44	5.10	163.85	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-51A	10/2/2012	--	--	29.50	4.44	3.57	168.29	
MW-51A	10/11/2012	--	--	27.50	5.00	2.96	173.29	
MW-51A	10/15/2012	--	--	--	4.44	3.51	177.73	
MW-51A	10/22/2012	--	--	--	4.44	4.49	182.17	
MW-51A	10/29/2012	--	--	--	5.50	2.35	187.67	
MW-51A	11/5/2012	--	--	29.00	5.53	3.31	193.20	
MW-51A	11/19/2012	--	--	--	5.54	3.97	198.74	
MW-51A	12/3/2012	--	--	--	5.28	0.00	204.02	
MW-51A	4/18/2013	--	--	8.20	0.00	NB	204.02	
MW-51A	8/23/2013	--	--	3.00	0.00	NB	204.02	Bottom at 56.85'; 2' of sediment in well
MW-51A	4/16/2014	--	--	4.00	0.00	0.00	204.02	Bottom at 56.75'
MW-51A	12/29/2014	--	--	3.50	0.00	0.00	204.02	Bottom at 57.10'
MW-51A	3/4/2015	--	--	4.30	0.00	0.00	204.02	Bottom at 57.10'
MW-51A	5/19/2015	--	--	3.50	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	1/6/2016	--	--	5.00	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	2/19/2016	--	--	5.50	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	6/22/2016	--	--	3.75	0.00	0.00	204.02	Bottom at 58.00'
MW-51A	9/9/2016	--	--	2.00	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	10/21/2016	--	--	2.10	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	12/2/2016	--	--	2.10	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	2/24/2017	--	--	2.90	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	4/21/2017	--	--	2.10	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	7/18/2017	--	--	3.30	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	10/20/2017	--	--	1.00	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	2/27/2018	--	--	1.80	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	5/18/2018	--	--	1.70	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	8/10/2018	--	--	0.90	0.00	0.00	204.02	Bottom at 57.00'
MW-51A	11/19/2018	--	--	2.00	0.00	0.00	204.02	Bottom at 57.00'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-54A	5/2/2012	--	--	1.50	--	NB	0.00	
MW-54A	6/5/2012	--	--	2.70	--	NB	0.00	
MW-54A	11/14/2012	--	--	4.00	--	NB	0.00	
MW-54A	4/18/2013	--	--	4.50	--	NB	0.00	
MW-54A	8/23/2013	--	--	3.70	--	NB	0.00	Bottom at 44.78'
MW-54A	4/16/2014	--	--	4.25	0.00	0.00	0.00	Bottom at 44.7'
MW-54A	4/25/2014	--	--	--	0.90	2.46	0.90	
MW-54A	4/29/2014	--	--	--	0.89	2.25	1.79	
MW-54A	8/14/2014	--	--	--	0.50	4.48	2.29	
MW-54A	8/29/2014	--	--	--	0.26	2.45	2.55	
MW-54A	9/5/2014	--	--	--	0.26	1.53	2.81	
MW-54A	9/12/2014	--	--	--	0.26	1.01	3.07	
MW-54A	10/17/2014	--	--	--	0.26	1.44	3.33	
MW-54A	10/24/2014	--	--	--	0.23	1.43	3.56	
MW-54A	12/31/2014	--	--	--	0.00	0.00	3.56	Unable to measure DNAPL thickness due to airlift assembly
MW-54A	3/4/2015	--	--	--	0.00	0.00	3.56	Unable to measure DNAPL thickness due to airlift assembly
MW-54A	3/27/2015	--	--	--	0.60	2.89	4.16	
MW-54A	4/3/2015	--	--	--	0.08	1.62	4.24	
MW-54A	4/10/2015	--	--	--	0.08	1.27	4.32	
MW-54A	4/17/2015	--	--	--	0.07	1.65	4.39	
MW-54A	4/24/2015	--	--	--	0.07	1.26	4.46	
MW-54A	5/19/2015	--	--	0*	0.00	0.00	4.46	Trace DNAPL on probe. Bottom at 30.10' (could not reach bottom)
MW-54A	6/5/2015	--	--	0*	0.00	0.00	4.46	
MW-54A	7/13/2015	--	--	0*	0.00	0.00	4.46	
MW-54A	9/28/2015	--	--	0*	0.00	0.00	4.46	Bottom at 30.60 (Cannot access bottom of well)
MW-54A	1/6/2016	--	--	1.40	0.00	0.00	4.46	Bottom at 45.20'
MW-54A	2/19/2016	--	--	1.50	0.00	0.00	4.46	Bottom at 44.90'
MW-54A	3/25/2016	--	--	--	0.80	1.54	5.26	
MW-54A	4/1/2016	--	--	--	0.03	1.21	5.29	
MW-54A	4/8/2016	--	--	--	0.03	1.80	5.32	
MW-54A	5/11/2016	--	--	--	0.02	2.44	5.34	
MW-54A	5/20/2016	--	--	--	0.02	1.50	5.36	
MW-54A	6/22/2016	--	--	0.20	0.00	0.00	5.36	Bottom at 45.80'
MW-54A	9/9/2016	--	--	0.00	0.00	0.00	5.36	Bottom at 44.90'
MW-54A	10/21/2016	--	--	0.00	0.00	0.00	5.36	Bottom at 28.00'; could not reach bottom
MW-54A	12/2/2016	--	--	0.70	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	2/24/2017	--	--	1.10	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	4/21/2017	--	--	1.50	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	7/18/2017	--	--	2.20	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	10/20/2017	--	--	2.20	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	2/27/2018	--	--	2.30	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	5/18/2018	--	--	1.40	0.00	0.00	5.36	Bottom at 45.15'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
MW-54A	8/10/2018	--	--	0.90	0.00	0.00	5.36	Bottom at 45.15'
MW-54A	11/19/2018	--	--	2.50	0.00	0.00	5.36	Bottom at 45.15'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-1	12/28/2009	4.61	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	1/6/2010	5.39	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	1/11/2010	5.48	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	1/18/2010	5.41	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	1/25/2010	4.07	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	2/1/2010	5.33	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-1	2/22/2010	4.40	4.56	0.20	0.20	0.98	0.20	
RW-1	3/8/2010	5.24	5.30	0.05	0.01	0.24	0.21	DNAPL staining on bailer
RW-1	3/11/2010	5.24	5.38	0.25	0.04	0.71	0.25	
RW-1	4/16/2010	5.23	6.30	0.33	0.18	3.32	0.43	
RW-1	4/26/2010	3.62	4.31	0.20	0.11	3.39	0.54	
RW-1	5/5/2010	4.56	5.38	0.15	0.09	3.41	0.63	
RW-1	5/11/2010	4.18	4.96	0.50	0.40	4.85	1.03	
RW-1	6/1/2010	5.12	6.35	0.05	0.19	5.06	1.22	
RW-1	6/9/2010	4.98	6.12	0.10	0.25	5.00	1.47	
RW-1	6/24/2010	5.13	6.11	0.20	0.18	5.07	1.65	
RW-1	7/6/2010	5.74	6.57	1.00	0.84	4.41	2.49	
RW-1	7/13/2010	5.89	6.51	1.00	0.68	4.57	3.17	
RW-1	7/20/2010	5.34	5.91	1.25	1.05	4.20	4.22	
RW-1	8/3/2010	6.02	7.78	0.50	0.54	8.21	4.76	
RW-1	8/10/2010	6.17	6.98	0.01	0.11	3.39	4.87	
RW-1	8/17/2010	7.31	--	0.00	--	NB	4.87	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-1	8/23/2010	6.08	--	0.50	--	NB	4.87	Bottom at 42.35'; Measured for DNAPL with tape
RW-1	8/30/2010	6.39	--	1.00	--	NB	4.87	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-1	9/17/2010	6.33	--	0.50	--	NB	4.87	Bottom at 42.55'; Measred for DNAPL with tape
RW-1	9/24/2010	6.57	--	1.40	--	NB	4.87	Bottom at 43.60'; Measured for DNAPL with tape
RW-1	10/1/2010	6.80	--	1.00	--	NB	4.87	Bottom at 42.80'; Measured for DNAPL with tape
RW-1	10/5/2010	6.62	--	1.25	--	NB	4.87	Bottom at 42.91'; Measured for DNAPL with tape
RW-1	10/12/2010	6.87	--	1.50	--	NB	4.87	Bottom at 42.96'; Measured for DNAPL with tape
RW-1	10/18/2010	6.78	--	1.50	--	NB	4.87	Bottom at 43.32'; Measured for DNAPL with tape
RW-1	12/10/2010	5.55	--	2.25	0.17	2.83	5.04	Bottom at 43.67'
RW-1	12/28/2010	5.50	--	1.00	--	NB	5.04	Bottom at 43.63'; Measured for DNAPL with tape
RW-1	1/3/2011	4.98	--	2.10	--	NB	5.04	Bottom at 43.70'; Measured for DNAPL with tape
RW-1	1/10/2011	5.52	--	1.50	--	NB	5.04	Measured for DNAPL with tape
RW-1	1/17/2011	5.58	--	0.80	--	NB	5.04	Bottom at 43.55'; Measured for DNAPL with tape
RW-1	1/28/2011	--	--	1.25	--	NB	5.04	Measured for DNAPL with tape
RW-1	2/18/2011	5.38	--	1.22	--	NB	5.04	Measured for DNAPL with tape
RW-1	2/22/2011	3.93	--	1.50	0.10	1.90	5.14	
RW-1	3/4/2011	4.41	--	0.05	--	NB	5.14	Measured for DNAPL with tape
RW-1	3/18/2011	4.97	--	0.65	--	NB	5.14	Bottom at 42.25'; Measured for DNAPL with tape

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-1	3/28/2011	5.32	--	0.00	0.00	0.25	5.14	Bottom at 43.55'
RW-1	4/4/2011	4.48	--	0.00	0.00	0.25	5.14	
RW-1	4/12/2011	3.78	--	0.45	0.10	0.40	5.24	Bottom at 42.21'
RW-1	4/19/2011	3.74	--	0.60	0.01	0.07	5.25	Bottom at 42.07'
RW-1	4/25/2011	3.48	--	0.50	--	NB	5.25	Bottom at 42.15'; Measured for DNAPL with tape
RW-1	5/9/2011	5.50	--	0.50	0.10	0.90	5.35	Bottom at 42.11'
RW-1	5/18/2011	4.93	--	0.10	0.00	0.25	5.35	Bottom at 42.2'
RW-1	6/6/2011	5.38	--	0.00	--	NB	5.35	Bottom at 42.05'; Measured for DNAPL with tape
RW-1	6/15/2011	4.52	--	0.00	--	NB	5.35	Bottom at 41.95'; Measured for DNAPL with tape
RW-1	6/20/2011	4.58	--	0.60	0.01	0.99	5.36	Bottom at 42.05'
RW-1	6/27/2011	3.90	--	0.80	0.01	0.99	5.37	Bottom at 42.05'
RW-1	6/28/2011	4.45	--	0.70	--	NB	5.37	Measured for DNAPL with tape
RW-1	7/11/2011	5.65	--	0.60	0.01	0.99	5.38	Bottom at 41.96'
RW-1	7/13/2011	5.71	--	0.80	0.25	1.75	5.63	Bottom at 42.0'
RW-1	7/18/2011	5.94	--	0.50	0.03	0.97	5.66	Bottom at 42.0'
RW-1	7/25/2011	5.68	--	0.30	0.01	0.99	5.67	Bottom at 42.0'
RW-1	8/5/2011	6.92	--	0.00	0.00	1.00	5.67	Trace amount of DNAPL
RW-1	8/15/2011	5.86	--	0.00	0.01	0.99	5.68	Bottom at 42.1'
RW-1	8/24/2011	5.94	--	0.00	0.00	1.00	5.68	Bottom at 42.08'
RW-1	9/6/2011	6.36	--	0.30	--	NB	5.68	Bottom at 42.01'
RW-1	9/12/2011	6.40	--	0.00	--	NB	5.68	Bottom at 42.10'
RW-1	9/19/2011	5.78	--	0.00	--	NB	5.68	Bottom at 42.15'
RW-1	10/6/2011	5.52	--	0.40	--	NB	5.68	Bottom at 42.01'
RW-1	10/10/2011	5.93	--	0.40	--	NB	5.68	Bottom at 42.01'
RW-1	10/14/2011	5.54	--	0.40	0.01	0.99	5.69	Bottom at 42.01'
RW-1	10/19/2011	5.39	--	0.40	0.01	0.99	5.70	
RW-1	10/24/2011	5.23	--	0.30	0.01	0.99	5.71	
RW-1	11/8/2011	5.31	--	0.04	--	NB	5.71	
RW-1	6/5/2012	--	--	0.75	--	NB	5.71	Bottom at 42.15'
RW-1	11/14/2012	--	--	0.75	--	NB	5.71	
RW-1	1/9/2013	--	--	0.60	--	NB	5.71	Bottom at 41.95'
RW-1	4/18/2013	--	--	0.80	--	NB	5.71	
RW-1	8/23/2013	--	--	1.00	--	NB	5.71	5' of sediment in well; Bottom at 42.10'
RW-1	10/11/2013	--	--	--	6.00	14.20	11.71	Air lifted sediment; TD at 46.39'
RW-1	11/25/2013	--	--	0.08	--	NB	11.71	Bottom at 44.25', soft
RW-1	4/16/2014	--	--	0.10	0.00	0.00	11.71	Bottom at 46.3'
RW-1	12/29/2014	--	--	0.00	0.00	0.00	11.71	Trace on probe; bottom at 46.30'
RW-1	3/4/2015	--	--	0.00	0.00	0.00	11.71	Trace on probe; bottom at 46.30'
RW-1	5/19/2015	--	--	0.10	0.00	0.00	11.71	Bottom at 46.15'
RW-1	7/13/2015	--	--	0.10	0.00	0.00	11.71	
RW-1	1/6/2016	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	2/19/2016	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'

Notes:
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Bloomington, Indiana

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RW-1	6/22/2016	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	9/9/2016	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	10/21/2016	--	--	0.10	0.00	0.00	11.71	Bottom at 44.50'
RW-1	12/2/2016	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	2/24/2017	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	4/21/2017	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	7/21/2017	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	10/20/2017	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	2/27/2018	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	5/18/2018	--	--	0.10	0.00	0.00	11.71	Bottom at 44.40'
RW-1	8/10/2018	--	--	0.00	0.00	0.00	11.71	Bottom at 44.40'
RW-1	11/19/2018	--	--	1.10	0.00	0.00	11.71	Bottom at 44.40'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-2	12/28/2009	4.39	--	5.00	--	NB	--	Used weighted tape to gauge for DNAPL; obstruction at top of sump; did not bail
RW-2	1/6/2010	4.59	--	4.90	--	NB	--	Obstruction at top of sump; Bottom at 40.65'; did not bail; Measured for DNAPL with tape
RW-2	1/11/2010	4.68	--	4.90	--	NB	--	Obstruction at top of sump; Bottom at 40.65'; did not bail; Measured for DNAPL with tape
RW-2	1/18/2010	4.90	--	4.90	--	NB	--	Obstruction at top of sump; Bottom at 40.65'; did not bail; Measured for DNAPL with tape
RW-2	1/25/2010	3.83	--	4.00	--	NB	--	Obstruction at 41.91'; did not bail; Measured for DNAPL with tape
RW-2	2/1/2010	4.46		4.00	--	NB	--	Obstruction at 41.94'; did not bail; Measured for DNAPL with tape
RW-2	2/2/2010	4.51	4.53	0.50	0.02	0.98	0.02	Obstruction at 41.94'
RW-2	2/2/2010	4.52	4.53	0.50	0.02	0.98	0.04	Obstruction at 41.94'
RW-2	2/3/2010	4.50	4.51	0.50	0.01	0.74	0.05	Obstruction at 41.94'
RW-2	2/4/2010	4.57	4.58	0.20	0.01	0.74	0.06	Obstruction at 41.94'
RW-2	2/4/2010	4.59	4.60	0.20	0.01	0.74	0.07	Obstruction at 41.94'
RW-2	2/5/2010	4.43	4.44	0.20	0.01	0.74	0.08	Obstruction at 41.94'
RW-2	2/22/2010	3.71	3.71	0.20	0.01	0.74	0.09	2" well inserted
RW-2	3/2/2010	4.10	4.12	0.20	0.02	0.98	0.11	
RW-2	3/4/2010	4.21	4.21	0.01	0.01	0.24	0.12	DNAPL staining on bailer
RW-2	3/8/2010	5.02	5.04	0.05	0.01	0.49	0.13	DNAPL staining on bailer
RW-2	3/11/2010	4.60	4.82	0.00	0.00	0.50	0.13	DNAPL staining on bailer
RW-2	4/16/2010	4.45	4.45	0.00	0.00	0.50	0.13	
RW-2	4/26/2010	3.80	3.87	0.00	0.00	0.25	0.13	DNAPL globules present in bailer
RW-2	5/5/2010	4.15	4.19	0.00	0.00	0.25	0.13	DNAPL globules present in bailer
RW-2	6/1/2010	4.53	4.55	1.00	0.10	0.65	0.23	
RW-2	6/9/2010	4.31	4.34	1.00	0.10	0.65	0.33	
RW-2	6/24/2010	4.44	4.45	0.75	0.08	0.67	0.41	
RW-2	7/6/2010	4.82	4.86	1.25	0.19	0.81	0.60	
RW-2	7/13/2010	4.97	5.00	1.50	0.23	0.77	0.83	
RW-2	7/20/2010	4.41	4.43	0.00	0.00	0.25	0.83	
RW-2	8/3/2010	5.02	5.18	0.00	0.00	0.25	0.83	
RW-2	8/10/2010	5.03	5.11	0.40	0.24	1.01	1.07	
RW-2	8/17/2010	5.27	--	0.50	0.00	NB	1.07	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-2	8/23/2010	4.96	--	1.50	0.00	NB	1.07	Bottom at 43.65'; Measured for DNAPL with tape
RW-2	8/30/2010	5.09	--	1.50	0.00	NB	1.07	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-2	9/17/2010	5.08	--	2.50	0.00	NB	1.07	Bottom at 43.66'; Measured for DNAPL with tape
RW-2	9/24/2010	5.20	--	3.20	0.00	NB	1.07	Bottom at 43.81'; Measured for DNAPL with tape
RW-2	10/1/2010	5.35	--	3.60	0.00	NB	1.07	Bottom at 43.68'; Measured for DNAPL with tape
RW-2	10/5/2010	5.28	--	3.70	0.00	NB	1.07	Bottom at 43.85'; Measured for DNAPL with tape
RW-2	10/12/2010	5.36	--	4.30	0.50	0.75	1.57	

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Bloomington, Indiana

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RW-2	10/18/2010	5.36	--	5.00	0.51	0.49	2.08	Bottom at 43.90'
RW-2	12/10/2010	4.65	--	5.00	0.45	0.55	2.53	
RW-2	12/28/2010	4.50	--	2.75	0.35	0.40	2.88	
RW-2	1/3/2011	4.05	--	1.00	0.12	0.63	3.00	
RW-2	1/10/2011	4.60	--	1.00	0.10	0.40	3.10	
RW-2	1/17/2011	4.69	--	0.15	0.03	0.72	3.13	
RW-2	1/28/2011	--	--	0.50	0.00	NB	3.13	Measured for DNAPL with tape
RW-2	2/18/2011	3.89	--	0.24	0.00	NB	3.13	Measured for DNAPL with tape
RW-2	2/22/2011	3.55	--	0.50	0.00	NB	3.13	Measured for DNAPL with tape
RW-2	3/4/2011	3.86	--	--	0.00	NB	3.13	Silt and sand at bottom of well
RW-2	3/18/2011	4.18	--	0.15	0.01	0.24	3.14	
RW-2	3/28/2011	3.85	--	0.00	0.00	0.25	3.14	Bottom at 43.40'
RW-2	4/4/2011	3.33	--	--	0.00	NB	3.14	Obstruction at 21.9'
RW-2	4/12/2011	3.55	--	--	0.00	NB	3.14	Obstruction at 21.89'
RW-2	4/19/2011	3.29	--	--	0.00	NB	3.14	Obstruction at 22.0'
RW-2	4/25/2011	2.99	--	--	0.00	NB	3.14	Did not bail, 2" well broken
RW-2	10/24/2011	4.51	--	0.00	0.05	0.95	3.19	Pulled out some of 2" well, still broken segments at the bottom; bottom at 32.96'
RW-2	6/5/2012	--	--	2.50	0.00	NB	3.19	Bottom at 40.40, PVC still in well.
RW-2	11/14/2012	--	--	6.50	0.00	NB	3.19	Removed PVC, Added 2" SS, Bottom at 43.00'
RW-2	4/18/2013	--	--	6.20	0.00	NB	3.19	
RW-2	7/3/2013	--	--	10.00	0.26	7.13	3.45	Air Lift Installed
RW-2	7/8/2013	--	--	--	0.24	5.01	3.69	
RW-2	7/12/2013	--	--	--	0.24	5.09	3.93	
RW-2	7/15/2013	--	--	--	0.24	5.06	4.17	
RW-2	7/19/2013	--	--	--	0.24	5.42	4.41	
RW-2	7/22/2013	--	--	--	0.24	5.11	4.65	
RW-2	7/26/2013	--	--	--	0.24	5.29	4.89	
RW-2	8/9/2013	--	--	--	0.31	2.99	5.20	
RW-2	8/16/2013	--	--	--	0.31	2.94	5.51	
RW-2	8/19/2013	--	--	--	0.31	2.12	5.82	
RW-2	8/23/2013	--	--	0.00	0.31	1.57	6.13	Probe stopped 6' from bottom
RW-2	8/26/2013	--	--	--	0.31	2.33	6.44	
RW-2	9/5/2013	--	--	--	0.31	1.97	6.75	
RW-2	9/9/2013	--	--	--	0.31	2.09	7.06	
RW-2	9/13/2013	--	--	--	0.31	2.48	7.37	
RW-2	9/16/2013	--	--	--	0.31	2.99	7.68	
RW-2	9/20/2013	--	--	--	0.31	0.40	7.99	
RW-2	9/23/2013	--	--	--	0.30	2.33	8.29	
RW-2	11/4/2013	--	--	--	0.43	1.30	8.72	
RW-2	11/12/2013	--	--	--	0.43	0.70	9.15	
RW-2	11/15/2013	--	--	--	0.42	0.63	9.57	

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RW-2	11/18/2013	--	--	--	0.42	0.71	9.99	
RW-2	3/28/2014	--	--	--	0.25	0.69	10.24	
RW-2	4/1/2014	--	--	--	0.21	0.88	10.45	
RW-2	4/8/2014	--	--	--	0.21	0.78	10.66	
RW-2	4/11/2014	--	--	--	0.21	1.48	10.87	
RW-2	4/15/2014	--	--	--	0.21	0.65	11.08	
RW-2	4/16/2014	--	--	--	0.00	0.00	11.08	Unable to measure DNAPL thickness due to airlift assembly
RW-2	4/18/2014	--	--	--	0.20	1.60	11.28	
RW-2	4/29/2014	--	--	--	0.20	1.42	11.48	
RW-2	5/2/2014	--	--	--	0.20	1.41	11.68	
RW-2	5/6/2014	--	--	--	0.20	1.34	11.88	
RW-2	5/15/2014	--	--	--	0.20	1.44	12.08	
RW-2	5/19/2014	--	--	--	0.20	1.18	12.28	
RW-2	5/22/2014	--	--	--	0.20	0.70	12.48	
RW-2	5/27/2014	--	--	--	0.20	0.41	12.68	
RW-2	9/5/2014	--	--	--	2.50	3.05	15.18	
RW-2	9/12/2014	--	--	--	0.04	3.25	15.22	
RW-2	9/19/2014	--	--	--	0.03	2.33	15.25	
RW-2	9/25/2014	--	--	--	0.03	0.86	15.28	
RW-2	10/3/2014	--	--	--	0.03	1.45	15.31	
RW-2	10/10/2014	--	--	Globs	0.00	0.00	15.31	Bottom at 34.70'; did not reach TD
RW-2	10/17/2014	--	--	--	0.03	1.34	15.34	
RW-2	10/24/2014	--	--	--	0.03	1.02	15.37	
RW-2	12/31/2014	--	--	--	0.00	0.00	15.37	Unable to measure DNAPL thickness due to airlift assembly
RW-2	3/4/2015	--	--	--	0.00	0.00	15.37	Unable to measure DNAPL thickness due to airlift assembly
RW-2	4/3/2015	--	--	--	1.79	0.00	17.16	
RW-2	4/10/2015	--	--	--	0.00	2.27	17.16	
RW-2	4/17/2015	--	--	--	0.00	1.60	17.16	
RW-2	4/24/2015	--	--	--	0.00	1.38	17.16	
RW-2	5/19/2015	--	--	0.50	0.00	0.00	17.16	Bottom at 41.50'
RW-2	6/5/2015	--	--	0.25	0.00	0.00	17.16	
RW-2	7/13/2015	--	--	2.50	0.00	0.00	17.16	
RW-2	9/28/2015	--	--	4.50	0.00	0.00	17.16	Bottom at 42.30'
RW-2	1/6/2016	--	--	5.75	0.00	0.00	17.16	Bottom at 42.00'
RW-2	2/19/2016	--	--	7.10	0.00	0.00	17.16	Bottom at 43.25'
RW-2	3/18/2016	--	--	--	3.00	2.31	20.16	
RW-2	4/8/2016	--	--	--	0.50	2.00	20.66	
RW-2	5/20/2016	--	--	--	0.08	1.07	20.74	
RW-2	6/22/2016	--	--	0.80	0.00	0.00	20.74	Bottom at 43.40'
RW-2	9/9/2016	--	--	3.00	0.00	0.00	20.74	Bottom at 42.20'
RW-2	10/21/2016	--	--	3.50	0.00	0.00	20.74	Bottom at 42.50'
RW-2	12/2/2016	--	--	4.50	0.00	0.00	20.74	Bottom at 42.50'
RW-2	2/24/2017	--	--	4.70	0.00	0.00	20.74	Bottom at 42.20'
RW-2	3/10/2017	--	--	--	2.00	0.86	22.74	
RW-2	3/24/2017	--	--	--	1.00	2.08	23.74	
RW-2	4/7/2017	--	--	--	0.40	2.72	24.14	
RW-2	4/21/2017	--	--	1.10	0.18	0.90	24.32	Bottom at 42.20'
RW-2	7/18/2017	--	--	3.60	0.00	0.00	24.32	Bottom at 42.20'

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RW-2	10/20/2017	--	--	2.50	0.00	0.00	24.32	Bottom at 42.20'
RW-2	2/27/2018	--	--	4.40	0.00	0.00	24.32	Bottom at 42.20'
RW-2	5/18/2018	--	--	4.70	0.00	0.00	24.32	Bottom at 42.20'
RW-2	8/10/2018	--	--	4.70	0.00	0.00	24.32	Bottom at 42.20'
RW-2	11/19/2018	--	--	5.00	0.00	0.00	24.32	Bottom at 42.20'

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RW-3	12/28/2009	4.79	--	2.00	0.00	NB	0.00	Used weighted tape to gauge for DNAPL; did not bail
RW-3	1/6/2010	4.99	--	2.00	0.00	NB	0.00	Did not bail; Measured for DNAPL with tape
RW-3	1/11/2010	5.09	--	2.00	0.00	NB	0.00	Did not bail; Measured for DNAPL with tape
RW-3	1/18/2010	4.78	--	2.00	0.00	NB	0.00	Did not bail; Measured for DNAPL with tape
RW-3	1/25/2010	4.22	--	2.00	0.00	NB	0.00	Did not bail; Measured for DNAPL with tape
RW-3	2/1/2010	4.85	--	2.00	0.00	NB	0.00	Did not bail; Measured for DNAPL with tape
RW-3	2/2/2010	4.91	4.93	1.00	0.02	0.98	0.02	
RW-3	2/2/2010	4.93	4.95	0.50	0.02	0.98	0.04	
RW-3	2/3/2010	4.95	4.96	0.50	0.02	0.98	0.06	
RW-3	2/4/2010	4.97	4.98	0.20	0.01	0.74	0.07	
RW-3	2/4/2010	4.97	5.03	0.20	0.01	0.99	0.08	
RW-3	2/5/2010	4.85	4.88	0.20	0.02	0.98	0.10	
RW-3	2/22/2010	4.45	4.46	0.50	0.06	0.94	0.16	
RW-3	3/2/2010	4.78	4.81	0.50	0.03	0.97	0.19	
RW-3	3/4/2010	5.01	5.04	0.20	0.04	0.96	0.23	
RW-3	3/8/2010	5.31	5.34	0.33	0.18	1.32	0.41	
RW-3	3/11/2010	4.98	5.03	1.00	0.36	1.89	0.77	
RW-3	4/16/2010	4.87	8.29	2.00	1.85	5.15	2.62	
RW-3	4/26/2010	4.16	4.23	1.25	0.84	4.41	3.46	
RW-3	5/5/2010	4.52	4.58	0.75	0.79	6.21	4.25	
RW-3	6/1/2010	4.88	6.02	2.50	3.50	7.00	7.75	
RW-3	6/9/2010	4.69	5.89	1.75	1.62	7.13	9.37	
RW-3	6/24/2010	4.83	6.39	2.75	3.61	8.64	12.98	
RW-3	7/6/2010	5.22	9.37	2.70	3.24	7.26	16.22	
RW-3	7/13/2010	5.34	9.82	2.50	2.98	5.77	19.20	
RW-3	7/20/2010	4.87	6.21	3.00	3.24	5.51	22.44	
RW-3	8/3/2010	5.39	5.45	0.90	0.72	6.28	23.16	
RW-3	8/10/2010	5.42	5.52	0.50	0.90	7.85	24.06	
RW-3	8/17/2010	5.63	--	0.50	0.00	NB	24.06	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-3	8/23/2010	5.35	--	3.90	0.00	NB	24.06	Bottom at 44.60'; Measured for DNAPL with tape
RW-3	8/30/2010	5.48	--	4.89	0.00	NB	24.06	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-3	9/17/2010	5.46	--	6.90	6.13	4.37	30.19	Bottom at 44.52'
RW-3	9/24/2010	5.58	--	4.40	2.93	3.07	33.12	Bottom at 44.68'
RW-3	10/1/2010	5.77	5.77	2.60	1.20	3.30	34.32	Bottom at 44.42'
RW-3	10/5/2010	5.65	--	2.00	0.00	NB	34.32	Bottom at 44.54'; Measured for DNAPL with tape
RW-3	10/12/2010	5.74	--	2.40	0.68	3.82	35.00	Bottom at 44.53'
RW-3	10/18/2010	5.74	--	2.25	0.00	NB	35.00	Bottom at 44.48'
RW-3	12/10/2010	4.95	--	5.00	3.38	2.62	38.38	Bottom at 44.5'
RW-3	12/28/2010	4.88	--	2.50	1.05	7.95	39.43	Bottom at 44.51'
RW-3	1/3/2011	4.36	--	1.80	0.23	2.77	39.66	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-3	1/10/2011	4.83	--	1.80	0.23	2.77	39.89	
RW-3	1/17/2011	4.94	--	1.60	0.09	1.16	39.98	Bottom at 44.35'
RW-3	1/28/2011	--	--	2.00	--	NB	39.98	Measured for DNAPL with tape
RW-3	2/18/2011	4.84	--	1.24	--	NB	39.98	Measured for DNAPL with tape
RW-3	2/22/2011	3.80	--	1.13	--	NB	39.98	Measured for DNAPL with tape
RW-3	3/4/2011	4.08	--	0.60	0.02	1.48	40.00	
RW-3	3/18/2011	4.50	--	0.70	0.08	1.42	40.08	Bottom at 43.45, silt at bottom
RW-3	3/28/2011	4.80	--	0.50	0.01	0.24	40.09	
RW-3	4/4/2011	3.57	--	0.10	0.20	0.05	40.29	Bottom at 43.41'
RW-3	4/12/2011	3.84	--	0.10	0.00	0.25	40.29	Bottom at 43.55'
RW-3	4/19/2011	3.53	--	0.20	0.01	0.07	40.30	Bottom at 43.33'
RW-3	4/25/2011	3.25	--	0.20	--	NB	40.30	Bottom at 43.35'; Measured for DNAPL with tape
RW-3	5/9/2011	4.35	--	0.30	--	NB	40.30	Bottom at 43.20'; Measured for DNAPL with tape
RW-3	5/18/2011	4.48	--	0.70	0.10	0.24	40.40	Bottom at 43.32'
RW-3	6/6/2011	4.94	--	0.60	--	NB	40.40	Bottom at 43.22'; Measured for DNAPL with tape
RW-3	6/20/2011	4.24	--	0.70	0.01	0.99	40.41	Bottom at 43.3'
RW-3	6/27/2011	3.81	--	1.10	0.06	1.94	40.47	Bottom at 43.25'
RW-3	6/28/2011	4.22	--	0.70	0.01	0.99	40.48	
RW-3	7/8/2011	4.95	--	0.80	0.09	1.91	40.57	Bottom at 43.30'
RW-3	7/13/2011	5.14	--	0.60	0.05	0.95	40.62	Bottom at 43.26'
RW-3	7/18/2011	5.21	--	0.90	0.05	0.95	40.67	Bottom at 43.30'
RW-3	7/25/2011	4.05	--	1.20	0.08	0.01	40.75	Bottom at 43.20'
RW-3	8/5/2011	5.32	--	0.10	0.00	0.25	40.75	
RW-3	8/15/2011	5.20	--	1.40	0.65	3.35	41.40	Bottom at 43.20'
RW-3	8/24/2011	5.26	--	0.80	0.01	0.99	41.41	Bottom at 43.31'
RW-3	9/6/2011	5.51	--	0.90	0.20	0.80	41.61	Bottom at 43.27'
RW-3	9/12/2011	5.53	--	0.70	0.10	0.90	41.71	Bottom at 44.34'
RW-3	9/19/2011	4.99	--	0.20	0.50	0.95	42.21	Bottom at 43.34'
RW-3	10/6/2011	5.23	--	0.60	--	NB	42.21	Bottom at 43.24'
RW-3	10/10/2011	5.28	--	0.60	--	NB	42.21	Bottom at 43.25'
RW-3	10/14/2011	5.10	--	0.60	0.15	0.85	42.36	Bottom at 43.25'
RW-3	10/19/2011	4.95	--	0.70	0.05	0.95	42.41	Bottom at 43.38'
RW-3	10/24/2011	4.95	--	0.30	0.05	0.95	42.46	Bottom at 43.30'
RW-3	11/8/2011	4.94	--	0.90	0.01	0.24	42.47	Bottom at 43.65'
RW-3	6/5/2012	--	--	1.60	--	NB	42.47	Bottom at 43.60'
RW-3	11/14/2012	--	--	2.80	--	NB	42.47	
RW-3	4/18/2013	--	--	3.10	--	NB	42.47	
RW-3	6/28/2013	--	--	5.00	0.70	10.06	43.17	Air Lift Installed
RW-3	7/1/2013	--	--	--	0.69	5.19	43.86	
RW-3	7/8/2013	--	--	--	0.69	4.78	44.55	
RW-3	7/12/2013	--	--	--	0.69	4.93	45.24	
RW-3	7/15/2013	--	--	--	0.69	4.66	45.93	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-3	7/19/2013	--	--	--	0.69	4.99	46.62	
RW-3	7/22/2013	--	--	--	0.69	5.11	47.31	
RW-3	7/26/2013	--	--	--	0.69	4.69	48.00	
RW-3	8/9/2013	--	--	--	0.25	2.25	48.25	
RW-3	8/16/2013	--	--	--	0.23	2.11	48.48	
RW-3	8/19/2013	--	--	--	0.23	2.21	48.71	
RW-3	8/23/2013	--	--	0.00	0.23	1.98	48.94	
RW-3	8/26/2013	--	--	--	0.23	2.30	49.17	
RW-3	9/5/2013	--	--	--	0.23	2.34	49.40	
RW-3	9/9/2013	--	--	--	0.23	2.49	49.63	
RW-3	9/13/2013	--	--	--	0.23	2.27	49.86	
RW-3	9/16/2013	--	--	--	0.23	2.07	50.09	
RW-3	9/20/2013	--	--	--	0.23	1.75	50.32	
RW-3	9/23/2013	--	--	--	0.23	2.61	50.55	
RW-3	11/4/2013	--	--	--	0.43	1.60	50.98	
RW-3	11/12/2013	--	--	--	0.43	1.12	51.41	
RW-3	11/15/2013	--	--	--	0.42	1.70	51.83	
RW-3	11/18/2013	--	--	--	0.42	1.48	52.25	
RW-3	3/28/2014	--	--	1.00	0.80	0.38	53.05	
RW-3	4/1/2014	--	--	--	0.76	0.97	53.81	
RW-3	4/8/2014	--	--	--	0.70	1.77	54.51	
RW-3	4/11/2014	--	--	--	0.70	1.07	55.21	
RW-3	4/15/2014	--	--	--	0.70	1.40	55.91	
RW-3	4/16/2014	--	--	0.00	0.00	0.00	55.91	Bottom at 44.4'
RW-3	4/18/2014	--	--	--	0.70	1.04	56.61	
RW-3	5/13/2014	--	--	--	0.70	0.56	57.31	
RW-3	5/19/2014	--	--	--	0.70	0.58	58.01	
RW-3	5/22/2014	--	--	--	0.70	0.00	58.71	
RW-3	5/27/2014	--	--	--	0.70	0.65	59.41	
RW-3	8/29/2014	--	--	--	1.00	2.63	60.41	
RW-3	9/5/2014	--	--	--	1.00	1.29	61.41	
RW-3	9/12/2014	--	--	--	1.25	1.51	62.66	
RW-3	9/19/2014	--	--	--	0.06	2.16	62.72	
RW-3	9/25/2014	--	--	--	0.06	2.13	62.78	
RW-3	10/3/2014	--	--	--	0.06	1.93	62.84	
RW-3	10/10/2014	--	--	0.50	0.06	1.37	62.90	Bottom at 44.73'
RW-3	10/17/2014	--	--	--	0.06	1.34	62.96	
RW-3	10/24/2014	--	--	--	0.03	1.19	62.99	
RW-3	12/29/2014	--	--	0.10	0.00	0.00	62.99	Bottom at 45.35'
RW-3	3/4/2015	--	--	0.90	0.00	0.00	62.99	Bottom at 44.70'
RW-3	4/3/2015	--	--	--	2.25	0.25	65.24	
RW-3	4/10/2015	--	--	--	1.00	0.63	66.24	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-3	4/17/2015	--	--	--	1.00	0.73	67.24	
RW-3	4/24/2015	--	--	--	0.44	1.08	67.68	
RW-3	5/19/2015	--	--	0.00	0.00	0.00	67.68	Bottom at 44.50'
RW-3	6/5/2015	--	--	0.00	0.00	0.00	67.68	
RW-3	7/13/2015	--	--	0.00	0.00	0.00	67.68	
RW-3	9/28/2015	--	--	1.90	0.00	0.00	67.68	Bottom at 45.15'
RW-3	1/6/2016	--	--	3.05	0.00	0.00	67.68	Bottom at 44.40'
RW-3	2/19/2016	--	--	3.05	0.00	0.00	67.68	Bottom at 45.50'
RW-3	3/18/2016	--	--	--	2.50	1.24	70.18	
RW-3	4/8/2016	--	--	--	0.10	1.24	70.28	
RW-3	5/20/2016	--	--	--	0.09	1.54	70.37	
RW-3	6/22/2016	--	--	0.00	0.00	0.00	70.37	Bottom at 41.00' (did not reach bottom)
RW-3	9/9/2016	--	--	0.70	0.00	0.00	70.37	Bottom at 45.50'
RW-3	10/21/2016	--	--	0.80	0.00	0.00	70.37	Bottom at 45.50'
RW-3	12/2/2016	--	--	1.60	0.00	0.00	70.37	Bottom at 45.50'
RW-3	2/24/2017	--	--	1.80	0.00	0.00	70.37	Bottom at 45.50'
RW-3	4/21/2017	--	--	1.00	0.00	0.00	70.37	Bottom at 45.50'
RW-3	7/18/2017	--	--	2.60	0.00	0.00	70.37	Bottom at 45.50'
RW-3	10/20/2017	--	--	5.00	0.00	0.00	70.37	Bottom at 45.25'
RW-3	2/27/2018	--	--	5.50	0.00	0.00	70.37	Bottom at 45.25'
RW-3	4/6/2018	--	--	--	5.96	0.00	76.33	
RW-3	5/18/2018	--	--	0.40	0.00	0.00	76.33	Bottom at 45.25'
RW-3	8/10/2018	--	--	0.70	0.00	0.00	76.33	Bottom at 45.25'
RW-3	11/19/2018	--	--	0.80	0.00	0.00	76.33	Bottom at 45.25'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-4	12/4/2009	8.00	NM	23.00	5.00	10.00	5.00	Used bailer to gauge for DNAPL
RW-4	12/7/2009	8.00	NM	22.00	20.00	0.00	25.00	Used bailer to gauge for DNAPL
RW-4	12/8/2009	8.00	20.00	21.00	20.00	0.00	45.00	Used bailer to gauge for DNAPL
RW-4	12/28/2009	7.28	22.00	15.00	31.00	7.25	76.00	Used weighted tape to gauge for DNAPL
RW-4	12/29/2009	7.32	15.00	6.70	8.16	3.84	84.16	Used weighted tape to gauge for DNAPL
RW-4	1/4/2010	7.54	13.28	2.25	1.36	3.64	85.52	Used weighted tape to gauge for DNAPL
RW-4	1/5/2010	7.36	12.17	2.75	0.81	3.19	86.33	Used weighted tape to gauge for DNAPL
RW-4	1/6/2010	7.48	--	2.00	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	1/8/2010	7.49	--	2.50	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	1/11/2010	7.56	--	2.25	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	1/18/2010	7.77	--	4.40	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	1/25/2010	6.64	--	5.75	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	2/1/2010	7.32	--	5.80	--	NB	86.33	Did not bail, observing recharge of DNAPL via tape
RW-4	2/2/2010	7.46	13.03	8.00	4.40	7.60	90.73	
RW-4	2/2/2010	7.62	12.98	3.00	1.47	9.53	92.20	
RW-4	2/4/2010	7.76	13.65	6.00	1.47	10.53	93.67	
RW-4	2/4/2010	7.49	13.85	3.00	1.39	11.61	95.06	
RW-4	2/5/2010	7.36	13.32	1.50	1.95	9.05	97.01	
RW-4	2/22/2010	5.98	11.56	5.00	5.86	8.14	102.87	
RW-4	3/2/2010	7.33	12.93	7.00	6.16	8.84	109.03	
RW-4	3/2/2010	7.68	12.73	3.00	1.51	8.49	110.54	
RW-4	3/4/2010	7.42	14.01	5.00	4.35	10.65	114.89	
RW-4	3/4/2010	8.01	13.31	1.00	0.86	6.14	115.75	
RW-4	3/8/2010	7.51	16.17	5.00	5.05	3.70	120.80	
RW-4	3/11/2010	8.12	16.97	1.50	1.80	6.20	122.60	
RW-4	3/24/2010	7.09	10.55	5.00	2.10	4.90	124.70	
RW-4	4/16/2010	7.51	18.37	5.00	6.21	9.54	130.91	
RW-4	4/26/2010	6.58	13.32	1.75	1.53	7.22	132.44	
RW-4	5/5/2010	6.96	13.91	1.75	2.36	6.39	134.80	
RW-4	6/1/2010	7.41	18.37	5.25	6.39	9.36	141.19	
RW-4	6/9/2010	7.26	17.65	2.25	3.89	6.61	145.08	
RW-4	6/24/2010	7.3	19.12	5.50	7.70	8.05	152.78	
RW-4	7/6/2010	7.72	18.12	5.00	9.01	6.74	161.79	
RW-4	7/13/2010	7.86	19.01	4.50	7.61	8.14	169.40	
RW-4	7/20/2010	7.35	19.17	3.00	5.86	9.89	175.26	
RW-4	8/3/2010	7.92	11.04	0.30	0.79	6.21	176.05	
RW-4	8/10/2010	7.9	13.87	0.40	1.40	12.60	177.45	
RW-4	8/17/2010	8.24	--	0.50	--	NB	177.45	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-4	8/23/2010	7.88	--	6.75	--	NB	177.45	Bottom at 45.25'; Measured for DNAPL with tape

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RW-4	8/30/2010	8.01	--	7.30	--	NB	177.45	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-4	9/17/2010	7.96	--	11.10	8.66	1.84	186.11	Bottom at 45.30', did not bail all DNAPL out
RW-4	9/24/2010	8.13	--	9.70	12.98	0.52	199.09	Bottom at 45.30',
RW-4	10/1/2010	8.31	--	3.70	4.50	4.50	203.59	Bottom at 45.22'
RW-4	10/5/2010	8.2	--	2.10	--	NB	203.59	Bottom at 45.20'; Measured for DNAPL with tape
RW-4	10/12/2010	8.29	--	4.70	5.25	3.75	208.84	Bottom at 45.23; did not bail all DNAPL out
RW-4	10/18/2010	8.28	--	3.85	3.90	3.60	212.74	Bottom at 45.21'
RW-4	10/29/2010	7.97	--	4.68	--	NB	212.74	Bottom at 45.22'; Measured for DNAPL with tape
RW-4	12/10/2010	7.6	--	11.00	9.75	0.75	222.49	Bottom at 45.25'
RW-4	12/28/2010	7.35	--	9.00	9.90	0.60	232.39	Bottom at 45.25'
RW-4	1/3/2011	6.86	--	4.60	4.50	3.00	236.89	
RW-4	1/10/2011	7.46	--	2.10	2.63	4.87	239.52	
RW-4	1/17/2011	7.57	--	2.50	1.88	4.12	241.40	Bottom at 45.25'
RW-4	1/28/2011	--	--	3.25	--	NB	241.40	Measured for DNAPL with tape
RW-4	2/18/2011	7.4	--	4.42	--	NB	241.40	Measured for DNAPL with tape
RW-4	2/22/2011	6.35	--	5.30	1.60	2.00	243.00	
RW-4	3/4/2011	6.65	--	5.30	3.38	4.12	246.38	
RW-4	3/18/2011	6.97	--	4.60	2.93	6.07	249.31	Bottom at 44.90'
RW-4	3/28/2011	7.35	--	4.80	0.50	2.50	249.81	Bottom at 45.36'
RW-4	4/4/2011	6.22	--	4.80	0.60	0.15	250.41	Bottom at 44.9'
RW-4	4/12/2011	6.34	--	2.40	0.30	0.45	250.71	Bottom at 44.9'
RW-4	4/19/2011	6.06	--	5.90	2.24	1.76	252.95	Bottom at 45.05'
RW-4	4/25/2011	5.76	--	5.00	4.65	1.35	257.60	Bottom at 44.90'
RW-4	5/9/2011	6.76	--	2.00	2.05	1.95	259.65	Bottom at 44.95'
RW-4	5/16/2011	6.82	--	1.50	0.55	1.15	260.20	Bottom at 44.95'
RW-4	6/6/2011	7.42	--	2.40	--	NB	260.20	Bottom at 44.88'
RW-4	6/7/2011	7.35	--	2.40	3.65	2.35	263.85	
RW-4	6/20/2011	6.73	--	2.50	0.65	1.35	264.50	Bottom at 45.03'
RW-4	6/27/2011	6.33	'-	2.90	2.25	2.75	266.75	Bottom at 44.9'
RW-4	6/28/2011	4.64	--	1.00	0.10	0.90	266.85	
RW-4	7/8/2011	7.45	--	1.70	0.85	2.15	267.70	Bottom at 45.05'
RW-4	7/11/2011	7.58	--	1.20	1.25	1.75	268.95	Bottom at 44.90'
RW-4	7/13/2011	7.62	--	1.20	0.45	1.55	269.40	Bottom at 44.86'
RW-4	7/18/2011	7.75	--	1.60	0.80	2.20	270.20	Bottom at 44.9'
RW-4	7/25/2011	7.56	--	1.60	1.70	2.30	271.90	Bottom at 45.0'
RW-4	8/5/2011	7.84	--	1.40	1.40	2.60	273.30	
RW-4	8/15/2011	7.78	--	2.80	1.25	3.75	274.55	Bottom at 45.1'
RW-4	8/24/2011	7.78	--	3.00	2.65	2.35	277.20	Bottom at 45.05'
RW-4	9/6/2011	8.05	--	3.30	2.20	1.80	279.40	Bottom at 43.93'
RW-4	9/12/2011	8.08	--	3.20	3.00	2.00	282.40	Bottom at 45.00'
RW-4	9/19/2011	7.29	--	2.80	2.10	2.90	284.50	Bottom at 45.10'

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-4	10/6/2011	7.7	--	4.60	4.80	2.20	289.30	Bottom at 44.92'
RW-4	10/10/2011	7.79	--	2.70	2.25	1.75	291.55	Bottom at 45.03'
RW-4	10/19/2011	7.44	--	2.60	2.20	2.80	293.75	Bottom at 44.95'
RW-4	10/24/2011	7.36	--	2.30	0.25	1.75	294.00	Bottom at 44.99'
RW-4	11/4/2011	6.95	--	3.50	2.95	2.05	296.95	
RW-4	6/5/2012	--	--	15.50	--	NB	296.95	Bottom at 45.15'
RW-4	11/14/2012	--	--	20.20	--	NB	296.95	
RW-4	4/18/2013	--	--	20.40	--	NB	296.95	
RW-4	8/23/2013	--	--	16.50	--	NB	296.95	
RW-4	4/16/2014	--	--	--	0.00	0.00	296.95	Unable to measure DNAPL thicknes due to airlift assembly
RW-4	4/25/2014	--	--	--	11.11	8.73	308.06	
RW-4	4/29/2014	--	--	--	11.11	9.43	319.17	
RW-4	5/2/2014	--	--	--	10.70	10.35	329.87	
RW-4	5/6/2014	--	--	--	0.67	9.51	330.54	
RW-4	5/9/2014	--	--	--	0.67	4,48	331.21	
RW-4	5/13/2014	--	--	--	0.67	2.99	331.88	
RW-4	5/16/2014	--	--	--	0.67	2.82	332.55	
RW-4	5/19/2014	--	--	--	0.67	2,24	333.22	
RW-4	5/22/2014	--	--	--	0.66	1.58	333.88	
RW-4	5/27/2014	--	--	--	0.66	3.21	334.54	
RW-4	8/14/2014	--	--	--	2.00	4.01	336.54	
RW-4	8/22/2014	--	--	--	2.00	3.05	338.54	
RW-4	8/29/2014	--	--	--	2.00	1.01	340.54	
RW-4	9/5/2014	--	--	--	2.00	0.65	342.54	
RW-4	9/12/2014	--	--	--	2.00	1.24	344.54	
RW-4	9/19/2014	--	--	--	0.54	1.84	345.08	
RW-4	9/25/2014	--	--	--	0.53	1.11	345.61	
RW-4	10/3/2014	--	--	--	0.53	1.59	346.14	
RW-4	10/10/2014	--	--	--	0.53	1.89	346.67	
RW-4	10/17/2014	--	--	--	0.53	1.57	347.20	
RW-4	10/24/2014	--	--	--	0.53	2.27	347.73	
RW-4	11/6/2014	--	--	--	0.53	2.14	348.26	
RW-4	12/29/2014	--	--	--	0.00	0.00	348.26	Unable to measure DNAPL thicknes due to airlift assembly
RW-4	3/4/2015	--	--	--	0.00	0.00	348.26	Unable to measure DNAPL thicknes due to airlift assembly
RW-4	3/13/2015	--	--	--	5.00	4.87	353.26	
RW-4	3/20/2015	--	--	--	3.00	2.50	356.26	
RW-4	3/27/2015	--	--	--	1.00	2.53	357.26	
RW-4	4/3/2015	--	--	--	0.50	1.06	357.76	
RW-4	4/10/2015	--	--	--	0.50	0.99	358.26	
RW-4	4/17/2015	--	--	--	0.37	1.17	358.63	
RW-4	4/24/2015	--	--	--	0.37	0.63	359.00	
RW-4	5/19/2015	--	--	0.20	0.00	0.00	359.00	Bottom at 44.40'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-4	6/5/2015	--	--	0.00	0.00	0.00	359.00	
RW-4	7/13/2015	--	--	0.10	0.00	0.00	359.00	
RW-4	9/28/2015	--	--	0*	0.00	0.00	359.00	Bottom at 34.10' (cannot reach bottom of well).
RW-4	1/6/2016	--	--	5.75	0.00	0.00	359.00	Bottom at 44.40'
RW-4	2/19/2016	--	--	~5.75	0.00	0.00	359.00	Bottom at 37.00'; could not get probe to bottom of well
RW-4	3/18/2016	--	--	--	5.00	3.42	364.00	
RW-4	3/25/2016	--	--	--	2.00	3.11	366.00	
RW-4	4/1/2016	--	--	--	1.00	1.20	367.00	
RW-4	4/8/2016	--	--	--	0.50	1.47	367.50	
RW-4	5/11/2016	--	--	--	0.30	2.71	367.80	
RW-4	5/20/2016	--	--	--	0.15	2.14	367.95	
RW-4	6/22/2016	--	--	0.30	0.00	0.00	367.95	Bottom att 46.40'
RW-4	9/9/2016	--	--	0.00	0.00	0.00	367.95	Bottom at 43.40' (did not reach bottom)
RW-4	10/21/2016	--	--	1.00	0.00	0.00	367.95	Bottom at 44.50'
RW-4	12/2/2016	--	--	1.00	0.00	0.00	367.95	Bottom at 43.40' (did not reach bottom)
RW-4	2/24/2017	--	--	1.00	0.00	0.00	367.95	Bottom at 43.40' (did not reach bottom)
RW-4	3/10/2017	--	--	--	1.50	0.40	369.45	
RW-4	3/24/2017	--	--	--	0.19	1.65	369.64	
RW-4	4/7/2017	--	--	--	0.10	1.40	369.74	
RW-4	4/21/2017	--	--	0.00	0.00	0.00	369.74	Bottom at 43.40' (did not reach bottom)
RW-4	7/18/2017	--	--	0.15	0.00	0.00	369.74	Bottom at 43.40' (did not reach bottom)
RW-4	10/20/2017	--	--	0.50	0.00	0.00	369.74	Bottom at 44.30' (did not reach bottom)
RW-4	2/27/2018	--	--	2.50	0.00	0.00	369.74	Bottom at 44.30' (did not reach bottom)
RW-4	5/18/2018	--	--	1.20	0.00	0.00	369.74	Bottom at 44.30' (did not reach bottom)
RW-4	8/10/2018	--	--	1.40	0.00	0.00	369.74	Bottom at 44.30' (did not reach bottom)
RW-4	11/19/2018	--	--	1.40	0.00	0.00	369.74	Bottom at 44.30' (did not reach bottom)

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-5	12/28/2009	8.08	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	1/6/2010	8.38	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	1/11/2010	8.45	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	1/18/2010	8.55	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	1/25/2010	7.75	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	2/1/2010	8.17	--	0.00	--	NB	--	Used weighted tape to gauge for DNAPL
RW-5	2/22/2010	8.12	9.46	0.20	0.02	0.98	0.02	
RW-5	3/8/2010	8.14	10.62	0.33	0.06	0.69	0.08	
RW-5	3/11/2010	8.62	9.11	0.05	0.01	0.49	0.09	DNAPL staining on bailer
RW-5	4/16/2010	9.36	15.12	0.33	0.19	3.31	0.28	
RW-5	4/26/2010	7.80	22.13	2.50	2.12	6.63	2.40	
RW-5	5/5/2010	7.81	26.82	3.00	5.43	6.82	7.83	
RW-5	6/1/2010	8.08	22.31	4.00	6.56	3.94	14.39	
RW-5	6/9/2010	8.03	20.37	3.75	5.93	4.57	20.32	
RW-5	6/24/2010	8.14	21.96	4.25	7.53	8.22	27.85	
RW-5	7/6/2010	8.62	16.13	2.50	2.80	4.20	30.65	
RW-5	7/13/2010	8.64	17.98	2.50	3.33	5.42	33.98	
RW-5	7/20/2010	8.62	14.39	1.50	2.19	4.81	36.17	
RW-5	8/3/2010	8.75	17.18	0.80	1.07	7.68	37.24	
RW-5	8/10/2010	9.13	17.60	1.40	1.16	5.84	38.40	
RW-5	8/17/2010	9.31	--	1.50	--	NB	38.40	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-5	8/23/2010	8.81	--	5.60	--	NB	38.40	Bottom at 46.65'; Measured for DNAPL with tape
RW-5	8/30/2010	8.86	--	5.78	--	NB	38.40	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-5	9/17/2010	8.83	--	5.72	7.26	3.24	45.66	Bottom at 45.55'
RW-5	9/24/2010	9.26	--	5.65	5.67	3.33	51.33	Bottom at 46.67'
RW-5	10/1/2010	9.42	--	5.40	4.50	4.50	55.83	Bottom at 46.55'
RW-5	10/5/2010	10.00	--	5.40	4.43	4.57	60.26	Bottom at 46.55'
RW-5	10/12/2010	9.42	--	5.00	3.98	5.02	64.24	Bottom at 46.57'
RW-5	10/18/2010	9.50	--	4.45	2.85	4.65	67.09	Bottom at 46.57'
RW-5	10/29/2010	8.91	--	4.49	--	NB	67.09	Bottom at 46.51'
RW-5	12/10/2010	9.45	--	5.20	4.65	2.85	71.74	Bottom at 46.6'
RW-5	12/28/2010	8.21	--	4.60	4.43	3.07	76.17	Bottom at 46.5'
RW-5	1/3/2011	7.70	--	4.50	3.00	3.00	79.17	
RW-5	1/10/2011	8.31	--	2.30	1.89	4.11	81.06	
RW-5	1/17/2011	8.43	--	1.75	1.13	3.37	82.19	Bottom at 46.6'
RW-5	1/28/2011	--	--	2.00	--	NB	82.19	Measured for DNAPL with tape
RW-5	2/18/2011	8.29	--	1.76	--	NB	82.19	Measured for DNAPL with tape
RW-5	2/22/2011	7.19	--	1.53	--	NB	82.19	Measured for DNAPL with tape
RW-5	3/4/2011	7.64	--	2.25	0.83	3.67	83.02	
RW-5	3/18/2011	7.92	--	1.90	--	NB	83.02	Bottom at 46.20'; Measured for DNAPL with tape

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-5	3/28/2011	8.29	--	0.90	0.13	1.87	83.15	Bottom at 46.72'
RW-5	4/4/2011	7.95	--	1.50	0.15	0.35	83.30	Bottom at 46.15'
RW-5	4/12/2011	7.24	--	1.80	0.15	0.35	83.45	Bottom at 46.16'
RW-5	4/19/2011	6.74	--	2.40	1.38	1.62	84.83	Bottom at 46.13'
RW-5	4/25/2011	6.54	--	1.30	0.90	1.10	85.73	Bottom at 46.15'
RW-5	5/9/2011	7.75	--	0.80	0.35	1.65	86.08	Bottom at 46.15'
RW-5	5/16/2011	7.76	--	0.50	0.26	1.74	86.34	Bottom at 46.15'
RW-5	6/6/2011	8.34	--	1.40	--	NB	86.34	Bottom at 46.15'; Measured for DNAPL with tape
RW-5	6/7/2011	8.33	--	1.40	1.10	1.90	87.44	
RW-5	6/20/2011	7.60	--	1.70	0.70	1.30	88.14	Bottom at 46.16'
RW-5	6/27/2011	7.52	--	1.50	0.85	2.15	88.99	Bottom at 46.2'
RW-5	6/28/2011	7.74	--	1.00	0.10	0.90	89.09	
RW-5	7/8/2011	8.39	--	2.40	1.09	2.91	90.18	Bottom at 46.30'
RW-5	7/11/2011	8.52	--	1.10	0.50	1.50	90.68	Bottom at 46.25'
RW-5	7/13/2011	8.60	--	1.30	0.60	1.40	91.28	Bottom at 46.22'
RW-5	7/18/2011	8.65	--	2.30	1.15	1.85	92.43	Bottom at 46.20'
RW-5	7/25/2011	8.52	--	2.00	1.65	2.35	94.08	Bottom at 46.3'
RW-5	8/5/2011	8.76	--	2.10	1.55	2.45	95.63	
RW-5	8/15/2011	8.65	--	2.10	1.05	2.95	96.68	Bottom at 46.3'
RW-5	8/24/2011	8.74	--	2.10	1.45	2.55	98.13	Bottom at 46.3'
RW-5	9/6/2011	8.95	--	2.20	1.35	1.65	99.48	Bottom at 46.18'
RW-5	9/12/2011	9.01	--	1.60	0.95	2.05	100.43	Bottom at 46.30'
RW-5	9/19/2011	8.63	--	1.80	1.45	3.55	101.88	Bottom at 46.30'
RW-5	10/6/2011	8.68	--	2.30	3.55	1.45	105.43	Bottom at 46.20'
RW-5	10/10/2011	8.74	--	0.90	0.60	1.40	106.03	Bottom at 46.17'
RW-5	10/19/2011	8.47	--	1.60	0.75	1.25	106.78	Bottom at 46.15'
RW-5	10/24/2011	8.32	--	1.20	0.45	1.55	107.23	Bottom at 46.25'
RW-5	11/4/2011	7.94	--	0.90	0.65	1.35	107.88	
RW-5	11/8/2011	8.34	--	1.10	0.05	0.21	107.93	Bottom at 46.35'
RW-5	6/5/2012	--	--	3.30	--	NB	107.93	Bottom at 46.35'
RW-5	11/14/2012	--	--	4.50	--	NB	107.93	
RW-5	4/18/2013	--	--	4.80	--	NB	107.93	
RW-5	8/23/2013	--	--	6.00	--	NB	107.93	Bottom at 45.82'
RW-5	4/16/2014	--	--	7.80	0.00	0.00	107.93	Bottom at 45.8'
RW-5	5/6/2014	--	--	--	0.45	1.30	108.38	
RW-5	12/29/2014	--	--	--	0.00	0.00	108.38	Unable to measure DNAPL thicknes due to airlift assembly
RW-5	3/4/2015	--	--	--	0.00	0.00	108.38	Unable to measure DNAPL thicknes due to airlift assembly
RW-5	4/15/2015	--	--	10.00	9.36	0.00	117.74	
RW-5	4/17/2015	--	--	--	1.00	4.33	118.74	
RW-5	4/24/2015	--	--	--	1.00	4.04	119.74	
RW-5	4/30/2015	--	--	--	0.10	1.98	119.84	
RW-5	5/8/2015	--	--	--	0.09	1.55	119.93	

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-5	5/15/2015	--	--	--	0.09	2.01	120.02	
RW-5	5/19/2015	--	--	0.20	0.00	0.00	120.02	Bottom at 45.80'
RW-5	6/5/2015	--	--	1.00	0.00	0.00	120.02	
RW-5	7/13/2015	--	--	0.50	0.00	0.00	120.02	
RW-5	9/28/2015	--	--	0.70	0.00	0.00	120.02	Bottom at 46.80'
RW-5	1/6/2016	--	--	0.00	0.00	0.00	120.02	Trace on probe; Bottom at 46.00'
RW-5	2/19/2016	--	--	1.10	0.00	0.00	120.02	Bottom at 47.00'
RW-5	3/25/2016	--	--	--	0.75	1.40	120.77	
RW-5	4/1/2016	--	--	--	0.10	1.24	120.87	
RW-5	5/11/2016	--	--	--	0.05	3.06	120.92	
RW-5	6/22/2016	--	--	0.00	0.00	0.00	120.92	Bottom at 45.60'
RW-5	9/9/2016	--	--	0.10	0.00	0.00	120.92	Bottom at 47.00'
RW-5	10/21/2016	--	--	0.00	0.00	0.00	120.92	Bottom at 47.90'
RW-5	12/2/2016	--	--	0.20	0.00	0.00	120.92	Bottom at 47.00'
RW-5	2/24/2017	--	--	0.50	0.00	0.00	120.92	Bottom at 47.00'
RW-5	4/21/2017	--	--	0.40	0.00	0.00	120.92	Bottom at 47.00'
RW-5	7/18/2017	--	--	1.00	0.00	0.00	120.92	Bottom at 47.00'
RW-5	10/20/2017	--	--	0.40	0.00	0.00	120.92	Bottom at 47.00'
RW-5	2/27/2018	--	--	0.40	0.00	0.00	120.92	Bottom at 47.00'
RW-5	5/18/2018	--	--	0.40	0.00	0.00	120.92	Bottom at 47.00'
RW-5	8/10/2018	--	--	0.40	0.00	0.00	120.92	Bottom at 47.00'
RW-5	11/19/2018	--	--	0.00	0.00	0.00	120.92	Bottom at 45.00'; did not reach bottom

Notes:
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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-6	4/16/2010	6.06	6.10	0.05	0.01	0.24	0.01	
RW-6	4/26/2010	5.25	5.97	0.00	0.00	1.75	0.01	Globules present in bailer
RW-6	5/5/2010	5.64	6.30	0.00	0.00	1.75	0.01	Globules present in bailer
RW-6	6/1/2010	6.11	6.55	0.00	0.00	1.75	0.01	Sheen and globules present in bailer
RW-6	6/9/2010	5.98	6.34	0.00	0.00	1.75	0.01	Sheen and globules present in bailer
RW-6	6/24/2010	5.99	6.13	0.00	0.00	0.25	0.01	
RW-6	7/6/2010	6.87	6.93	0.00	0.00	0.25	0.01	
RW-6	7/13/2010	7.01	7.13	0.00	0.00	0.25	0.01	
RW-6	7/20/2010	6.08	6.11	0.00	0.00	0.25	0.01	Globules and DNAPL staining on bailer
RW-6	8/3/2010	6.62	7.83	0.05	0.09	3.41	0.10	
RW-6	8/10/2010	6.67	7.46	0.00	0.00	0.25	0.10	
RW-6	8/17/2010	6.84	--	0.00	--	NB	0.10	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-6	8/23/2010	6.58	--	0.00	--	NB	0.10	Bottom at 38.55'; Measured for DNAPL with tape
RW-6	8/30/2010	6.70	--	0.00	--	NB	0.10	Recovery Program Temporarily Suspended; Measured for DNAPL with tape
RW-6	9/17/2010	6.69	--	0.00	--	NB	0.10	Bottom at 38.51'; Measured for DNAPL with tape
RW-6	9/24/2010	6.85	--	0.00	--	NB	0.10	Bottom at 38.53'; Measured for DNAPL with tape
RW-6	10/1/2010	7.05	--	0.00	--	NB	0.10	Bottom at 38.56'; Measured for DNAPL with tape
RW-6	10/5/2010	6.92	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	10/12/2010	7.05	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	10/18/2010	7.02	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	10/29/2010	6.68	--	0.00	--	NB	0.10	Bottom at 38.45'; Measured for DNAPL with tape
RW-6	12/10/2010	6.65	--	0.00	--	NB	0.10	38.5'; Measured for DNAPL with tape
RW-6	12/28/2010	6.05	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	1/3/2011	5.58	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	1/10/2011	6.18	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	1/17/2011	6.24	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	1/28/2011	--	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	2/18/2011	6.12	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	2/22/2011	5.07	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	3/4/2011	5.40	--	0.00	--	NB	0.10	Measured for DNAPL with tape
RW-6	3/18/2011	5.74	--	0.00	--	NB	0.10	Bottom at 38.50'; Measured for DNAPL with tape
RW-6	4/19/2011	4.84	--	0.00	--	NB	0.10	Bottom at 38.18'; Measured for DNAPL with tape
RW-6	5/9/2011	5.55	--	0.00	--	NB	0.10	Bottom at 38.15'; Measured for DNAPL with tape
RW-6	5/16/2011	5.55	--	0.00	--	NB	0.10	Bottom at 38.15'; Measured for DNAPL with tape
RW-6	6/6/2011	6.10	--	0.00	--	NB	0.10	Bottom at 38.1'; Measured for DNAPL with tape
RW-6	6/20/2011	6.43	--	0.00	--	NB	0.10	Bottom at 38.1'; Measured for DNAPL with tape
RW-6	6/27/2011	5.08	--	0.00	--	NB	0.10	Bottom at 38.05'; Measured for DNAPL with tape
RW-6	7/8/2011	6.17	--	0.00	--	NB	0.10	Bottom at 38.05'; Measured for DNAPL with tape
RW-6	7/13/2011	6.33	--	0.00	--	NB	0.10	Bottom at 38.12'; Measured for DNAPL with tape
RW-6	7/18/2011	6.49	--	0.00	0.00	0.25	0.10	Bottom at 38.30'

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Former Indiana Creosoting Company
Bloomington, Indiana

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RW-6	7/25/2011	6.28	--	0.00	--	NB	0.10	Bottom at 38.30'; Measured for DNAPL with tape
RW-6	8/5/2011	7.60	--	0.00	0.00	1.00	0.10	
RW-6	8/24/2011	6.51	--	0.00	0.00	0.00	0.10	Bottom at 38.19'
RW-6	10/10/2011	6.51	--	0.00	--	NB	0.10	Bottom at 38.11'
RW-6	11/8/2011	6.17	--	0.00	--	NB	0.10	Bottom at 38.36'
RW-6	6/5/2012	--	--	0.00	--	NB	0.10	Bottom at 38.30'
RW-6	11/14/2012	--	--	0.00	--	NB	0.10	
RW-6	4/18/2013	--	--	0.00	--	NB	0.10	
RW-6	8/23/2013	--	--	0.00	--	NB	0.10	Bottom at 38.15'; 4' of sediment in well
RW-6	4/16/2014	--	--	0.00	0.00	0.00	0.10	Trace DNAPL on probe. Bottom at 38.2'
RW-6	12/29/2014	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	3/4/2015	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	1/6/2016	--	--	0.00	0.00	0.00	0.10	Trace on probe; Bottom at 38.35'
RW-6	2/19/2016	--	--	0.00	0.00	0.00	0.10	Trace on probe; Bottom at 38.35'
RW-6	6/22/2016	--	--	0.00	0.00	0.00	0.10	Trace on probe; Bottom at 38.35'
RW-6	9/9/2016	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	10/21/2016	--	--	0.00	0.00	0.00	0.10	Bottom at 38.20'
RW-6	12/2/2016	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	2/24/2017	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	4/21/2017	--	--	0.00	0.00	0.00	0.10	Bottom at 38.35'
RW-6	7/18/2017	--	--	0.15	0.00	0.00	0.10	Bottom at 38.35'
RW-6	10/20/2017	--	--	0.60	0.00	0.00	0.10	Bottom at 38.35'
RW-6	2/27/2018	--	--	0.10	0.00	0.00	0.10	Bottom at 38.35'
RW-6	5/18/2018	--	--	0.00	0.00	0.00	0.10	Bottom at 38.55'
RW-6	8/10/2018	--	--	0.00	0.00	0.00	0.10	Bottom at 38.55'
RW-6	11/19/2018	--	--	0.10	0.00	0.00	0.10	Bottom at 38.55'

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RW-7	12/10/2010	8.55	--	3.60	0.95	3.55	0.95	Obstructions at 46.6' and 48.0'
RW-7	12/28/2010	8.31	--	2.50	0.75	3.75	1.70	Obstructions at 46.6' and 48.0'
RW-7	1/3/2011	7.84	--	2.00	0.30	2.70	2.00	Obstructions at 46.6' and 48.0'
RW-7	1/10/2011	8.38	--	2.00	0.38	4.12	2.38	Obstructions at 46.6' and 48.0'
RW-7	1/17/2011	8.60	--	1.50	0.00	NB	2.38	Measured for DNAPL with tape
RW-7	1/28/2011	--	--	1.75	0.00	NB	2.38	Obstructions at 46.6 and 48.0' Measured for DNAPL with tape
RW-7	3/4/2011	7.15	--	0.90	0.15	1.35	2.53	Obstruction at 46.4'
RW-7	3/18/2011	7.38	--	0.80	0.00	NB	2.53	Obstruction at 46.30'; Measured for DNAPL with tape
RW-7	3/28/2011	7.39	--	0.90	0.06	0.44	2.59	Bottom at 46.85'
RW-7	4/4/2011	7.77	--	0.80	0.10	0.40	2.69	Bottom at 46.31'
RW-7	4/12/2011	7.06	--	0.70	0.10	0.40	2.79	Bottom at 46.22'
RW-7	4/19/2011	7.19	--	0.90	0.03	0.05	2.82	Bottom at 46.30', obstruction
RW-7	4/25/2011	7.35	--	0.50	0.08	0.42	2.90	Bottom at 46.30', obstruction
RW-7	5/9/2011	6.11	--	0.80	0.20	0.55	3.10	Bottom at 46.30', obstruction
RW-7	5/18/2011	6.81	--	1.00	0.20	0.30	3.30	Bottom at 46.3, obstruction
RW-7	6/6/2011	7.49	--	0.90	0.00	NB	3.30	Bottom at 46.28', obstruction; Measured for DNAPL with tape
RW-7	6/7/2011	7.40	--	0.90	0.10	0.90	3.40	Bottom at 46.30', obstruction
RW-7	6/20/2011	7.76	--	0.80	0.01	0.99	3.41	Bottom at 46.34', obstruction
RW-7	6/27/2011	8.06	--	1.00	0.10	1.90	3.51	Bottom at 46.3', obstruction
RW-7	6/28/2011	8.70	--	0.60	0.00	NB	3.51	Measured for DNAPL with tape
RW-7	7/8/2011	8.25	--	0.40	0.09	0.91	3.60	Bottom at 46.29'
RW-7	7/11/2011	8.73	--	0.70	0.10	0.90	3.70	Bottom at 46.21'
RW-7	7/13/2011	9.06	--	1.20	0.20	0.80	3.90	Bottom at 47.50'
RW-7	7/18/2011	9.10	--	0.90	0.08	0.92	3.98	Bottom at 46.6'
RW-7	7/25/2011	8.95	--	0.80	0.05	0.10	4.03	Bottom at 46.22'
RW-7	8/5/2011	8.69	--	0.20	0.15	1.85	4.18	
RW-7	8/15/2011	9.14	--	0.40	0.05	0.95	4.23	Bottom at 46.3'
RW-7	8/24/2011	8.64	--	0.50	0.00	1.00	4.23	Bottom at 46.4'
RW-7	9/6/2011	9.30	--	0.80	0.05	0.95	4.28	Bottom at 46.32
RW-7	9/12/2011	9.42	--	0.40	0.05	0.95	4.33	Bottom at 46.40'
RW-7	9/19/2011	9.37	--	1.50	0.20	1.80	4.53	Bottom at 47.65'
RW-7	10/6/2011	8.71	--	0.60	0.05	0.95	4.58	Bottom at 46.40'
RW-7	10/10/2011	1.50	--	0.70	0.05	0.95	4.63	Bottom at 46.40'
RW-7	10/19/2011	8.83	--	0.60	0.10	0.90	4.73	Bottom at 46.25'
RW-7	10/24/2011	8.50	--	0.40	0.10	0.90	4.83	Bottom at 46.35'
RW-7	11/8/2011	8.44	--	0.50	0.00	NB	4.83	Bottom at 46.52'
RW-7	6/5/2012	--	--	1.30	0.00	NB	4.83	Bottom at 46.60', obstruction
RW-7	10/26/2012	--	--	4.50	2.50	0.00	7.33	Bypassed obstruction with 2" Stainless Steel
RW-7	11/5/2012	--	--	5.00	0.27	4.82	7.60	
RW-7	11/14/2012	--	--	3.50	--	NB	7.60	
RW-7	11/26/2012	--	--	--	0.27	5.08	7.87	
RW-7	12/3/2012	--	--	--	0.75	5.05	8.62	

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RW-7	12/4/2012	--	--	5.00	0.25	5.33	8.87	
RW-7	12/5/2012	--	--	6.00	0.25	1.90	9.12	
RW-7	12/14/2012	--	--	3.30	0.27	4.41	9.39	
RW-7	12/17/2012	--	--	1.10	0.27	4.88	9.66	
RW-7	12/28/2012	--	--	--	0.27	5.07	9.93	
RW-7	1/2/2013	--	--	6.50	0.57	2.43	10.50	
RW-7	1/7/2013	--	--	3.60	0.57	4.42	11.07	
RW-7	1/14/2013	--	--	--	0.56	2.52	11.63	
RW-7	4/18/2013	--	--	10.00	--	NB	11.63	
RW-7	4/30/2013	--	--	--	1.88	1.88	13.51	
RW-7	5/6/2013	--	--	--	6.07	6.07	19.58	
RW-7	5/20/2013	--	--	--	4.71	4.71	24.29	
RW-7	5/23/2013	--	--	--	0.47	4.50	24.76	
RW-7	5/29/2013	--	--	--	0.42	3.23	25.18	
RW-7	6/10/2013	--	--	--	0.42	2.18	25.60	
RW-7	6/14/2013	--	--	--	0.42	3.46	26.02	
RW-7	6/24/2013	--	--	--	0.42	2.87	26.44	
RW-7	7/8/2013	--	--	--	0.42	4.68	26.86	Air Lift Installed
RW-7	7/12/2013	--	--	--	0.42	4.26	27.28	
RW-7	7/15/2013	--	--	--	0.42	5.21	27.70	
RW-7	7/19/2013	--	--	--	0.42	5.54	28.12	
RW-7	7/22/2013	--	--	--	0.42	5.13	28.54	
RW-7	7/26/2013	--	--	--	0.43	4.71	28.97	
RW-7	8/9/2013	--	--	--	0.43	1.57	29.40	
RW-7	8/16/2013	--	--	--	0.43	2.11	29.83	
RW-7	8/19/2013	--	--	--	0.43	2.21	30.26	
RW-7	8/23/2013	--	--	0.20	0.43	1.57	30.69	Probe stopped 4' from bottom
RW-7	8/26/2013	--	--	--	0.43	1.70	31.12	
RW-7	9/5/2013	--	--	--	0.43	1.67	31.55	
RW-7	9/9/2013	--	--	--	0.43	1.46	31.98	
RW-7	9/13/2013	--	--	--	0.42	1.94	32.40	
RW-7	9/16/2013	--	--	--	0.42	1.87	32.82	
RW-7	9/20/2013	--	--	--	0.42	1.48	33.24	
RW-7	9/23/2013	--	--	--	0.42	1.59	33.66	
RW-7	9/27/2013	--	--	--	0.42	1.83	34.08	
RW-7	9/30/2013	--	--	--	0.42	2.05	34.50	
RW-7	10/4/2013	--	--	--	0.42	1.66	34.92	
RW-7	10/7/2013	--	--	--	0.42	2.11	35.34	
RW-7	10/25/2013	--	--	--	0.43	1.77	35.77	
RW-7	10/28/2013	--	--	--	0.43	1.60	36.20	
RW-7	11/1/2013	--	--	--	0.43	1.69	36.63	
RW-7	11/4/2013	--	--	--	0.43	1.25	37.06	

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RW-7	11/8/2013	--	--	--	0.42	0.70	37.48	
RW-7	11/12/2013	--	--	--	0.42	0.79	37.90	
RW-7	11/15/2013	--	--	--	0.42	1.24	38.32	
RW-7	11/18/2013	--	--	--	0.42	0.93	38.74	
RW-7	3/28/2014	--	--	--	0.85	0.41	39.59	
RW-7	4/1/2014	--	--	--	0.80	3.28	40.39	
RW-7	4/4/2014	--	--	--	0.77	0.54	41.16	
RW-7	4/8/2014	--	--	--	0.77	0.64	41.93	
RW-7	4/11/2014	--	--	--	0.77	0.38	42.70	
RW-7	4/15/2014	--	--	--	0.77	1.46	43.47	
RW-7	4/16/2014	--	--	--	0.00	0.00	43.47	Unable to measure DNAPL thickness due to airlift assembly
RW-7	4/18/2014	--	--	--	0.77	1.25	44.24	
RW-7	4/29/2014	--	--	--	0.77	1.60	45.01	
RW-7	5/2/2014	--	--	--	0.77	0.92	45.78	
RW-7	5/6/2014	--	--	--	0.77	0.97	46.55	
RW-7	5/13/2014	--	--	--	0.77	0.88	47.32	
RW-7	5/16/2014	--	--	--	0.77	0.54	48.09	
RW-7	5/19/2014	--	--	--	0.77	0.57	48.86	
RW-7	5/22/2014	--	--	--	0.77	0.36	49.63	
RW-7	5/27/2014	--	--	--	0.75	0.57	50.38	
RW-7	8/14/2014	--	--	--	1.92	1.78	52.30	
RW-7	8/29/2014	--	--	--	1.91	0.93	54.21	
RW-7	9/5/2014	--	--	--	1.91	0.16	56.12	
RW-7	9/12/2014	--	--	--	1.91	0.31	58.03	
RW-7	10/10/2014	--	--	0.50	1.91	1.30	59.94	Bottom at 49.40'
RW-7	10/17/2014	--	--	--	1.16	0.00	61.10	
RW-7	10/24/2014	--	--	--	1.22	0.00	62.32	
RW-7	11/6/2014	--	--	--	1.61	0.00	63.93	
RW-7	12/29/2014	--	--	--	0.00	0.00	63.93	Unable to measure DNAPL thickness due to airlift assembly
RW-7	3/4/2015	--	--	--	0.00	0.00	63.93	Unable to measure DNAPL thickness due to airlift assembly
RW-7	3/20/2015	--	--	--	0.90	2.63	64.83	
RW-7	3/27/2015	--	--	--	0.00	2.03	64.83	
RW-7	4/3/2015	--	--	--	0.00	2.26	64.83	
RW-7	4/10/2015	--	--	--	0.00	1.95	64.83	
RW-7	4/17/2015	--	--	--	0.00	1.75	64.83	
RW-7	4/24/2015	--	--	--	0.00	1.58	64.83	
RW-7	5/19/2015	--	--	2.00	0.00	0.00	64.83	Bottom at 50.90'
RW-7	6/5/2015	--	--	0.50	0.00	0.00	64.83	Could not reach bottom
RW-7	9/28/2015	--	--	4.00	0.00	0.00	64.83	Bottom at 50.10'
RW-7	1/6/2016	--	--	4.50	0.00	0.00	64.83	Bottom at 50.50'
RW-7	2/19/2016	--	--	9.75	0.00	0.00	64.83	Bottom at 50.90'
RW-7	3/18/2016	--	--	--	1.50	2.80	66.33	

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RW-7	3/25/2016	--	--	--	0.75	1.59	67.08	
RW-7	4/1/2016	--	--	--	0.50	0.75	67.58	
RW-7	4/8/2016	--	--	--	0.50	2.63	68.08	
RW-7	5/11/2016	--	--	--	0.25	2.24	68.33	
RW-7	5/20/2016	--	--	--	0.08	1.31	68.41	
RW-7	6/22/2016	--	--	0.50	0.00	0.00	68.41	Bottom at 50.10'
RW-7	9/9/2016	--	--	1.00	0.00	0.00	68.41	Bottom at 50.90'
RW-7	10/21/2016	--	--	4.10	0.00	0.00	68.41	Bottom at 50.00'
RW-7	12/2/2016	--	--	2.00	0.00	0.00	68.41	Bottom at 50.90'
RW-7	2/24/2017	--	--	4.80	0.00	0.00	68.41	Bottom at 50.90'; air lift plugged
RW-7	4/21/2017	--	--	4.80	0.00	0.00	68.41	Bottom at 50.90'
RW-7	7/18/2017	--	--	4.90	0.00	0.00	68.41	Bottom at 50.90'
RW-7	10/20/2017	--	--	6.00	0.00	0.00	68.41	Bottom at 50.90' (sheet says 59.90'; believe this is an error)
RW-7	11/17/2017	--	--	--	6.00	7.21	74.41	
RW-7	2/27/2018	--	--	3.60	0.00	0.00	68.41	Bottom at 50.90' (sheet says 59.90'; believe this is an error)
RW-7	5/18/2018	--	--	3.50	0.00	0.00	68.41	Bottom at 50.90'
RW-7	8/10/2018	--	--	4.70	0.00	0.00	68.41	Bottom at 50.90'
RW-7	11/19/2018	--	--	5.20	0.00	0.00	68.41	Bottom at 50.90'

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RW-8	4/24/2012	5.44	--	23.00	0.00	0.00	0.00	First time pumping with EDRS, did not record amount pumped
RW-8	5/23/2012	--	--	--	6.84	0.00	6.84	
RW-8	5/24/2012	--	--	--	12.00	0.00	18.84	
RW-8	5/31/2012	--	--	--	6.50	0.00	25.34	
RW-8	6/5/2012	--	--	21.10	0.00	NB	25.34	Bottom at 45.50', top of pump.
RW-8	7/18/2012	--	--	--	33.04	10.50	58.38	
RW-8	7/31/2012	--	--	6.00	11.75	0.00	70.13	
RW-8	8/1/2012	--	--	--	15.87	0.00	86.00	
RW-8	8/15/2012	--	--	15.00	26.63	0.00	112.63	
RW-8	8/23/2012	--	--	15.00	24.23	16.66	136.86	
RW-8	8/24/2012	--	--	11.00	0.00	NB	136.86	
RW-8	8/29/2012	--	--	14.00	20.76	9.70	157.62	
RW-8	8/30/2012	--	--	14.00	11.56	3.81	169.18	
RW-8	8/31/2012	--	--	11.50	0.00	NB	169.18	
RW-8	9/4/2012	--	--	14.00	21.84	4.50	191.02	
RW-8	9/10/2012	--	--	14.00	22.00	3.75	213.02	
RW-8	9/11/2012	--	--	13.00	15.32	5.98	228.34	
RW-8	9/12/2012	--	--	11.00	11.00	4.50	239.34	
RW-8	9/13/2012	--	--	10.50	8.25	1.30	247.59	
RW-8	9/14/2012	--	--	9.00	9.89	0.00	257.48	
RW-8	9/17/2012	--	--	12.75	0.00	NB	257.48	
RW-8	9/18/2012	--	--	13.25	15.98	3.76	273.46	
RW-8	9/27/2012	--	--	15.50	15.98	9.57	289.44	
RW-8	10/2/2012	--	--	14.00	15.98	3.41	305.42	
RW-8	10/11/2012	--	--	14.50	15.98	3.36	321.40	
RW-8	10/15/2012	--	--	--	15.98	5.72	337.38	
RW-8	10/22/2012	--	--	--	17.41	3.77	354.79	
RW-8	10/29/2012	--	--	--	17.42	2.62	372.21	
RW-8	11/5/2012	--	--	12.00	17.41	2.93	389.62	
RW-8	11/12/2012	--	--	--	19.55	0.99	409.17	
RW-8	11/14/2012	--	--	12.50	0.00	NB	409.17	
RW-8	11/19/2012	--	--	--	19.55	2.08	428.72	
RW-8	11/26/2012	--	--	--	21.18	0.00	449.90	
RW-8	12/3/2012	--	--	--	16.24	0.00	466.14	
RW-8	12/4/2012	--	--	12.80	14.84	0.00	480.98	
RW-8	12/11/2012	--	--	13.50	10.62	0.00	491.60	
RW-8	12/14/2012	--	--	9.00	13.75	0.00	505.35	
RW-8	12/17/2012	--	--	9.00	12	0.00	517.35	
RW-8	12/28/2012	--	--	--	16.64	0.00	533.99	
RW-8	1/2/2013	--	--	12.50	17.03	0.00	551.02	
RW-8	1/7/2013	--	--	11.70	17.5	0.00	568.52	
RW-8	1/14/2013	--	--	10.60	16.33	0.00	584.85	

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-8	2/6/2013	--	--	11.25	10.6	0.00	595.45	
RW-8	4/3/2013	--	--	9.50	10.25	0.00	605.70	
RW-8	4/4/2013	--	--	7.50	10.25	0.00	615.95	
RW-8	4/18/2013	--	--	12.50	0	NB	615.95	
RW-8	4/22/2013	--	--	--	14.5	6.76	630.45	
RW-8	4/30/2013	--	--	--	20.34	0.00	650.79	
RW-8	5/3/2013	--	--	--	15.8	0.00	666.59	
RW-8	5/6/2013	--	--	--	0.9	0.00	667.49	
RW-8	5/20/2013	--	--	--	17.27	0.00	684.76	
RW-8	5/23/2013	--	--	--	13.7	3.99	698.46	
RW-8	5/29/2013	--	--	--	13.7	1.58	712.16	
RW-8	6/10/2013	--	--	--	12.68	0.00	724.84	
RW-8	6/14/2013	--	--	--	13.16	2.55	738.00	
RW-8	6/24/2013	--	--	--	13.17	3.12	751.17	
RW-8	7/1/2013	--	--	--	13.16	2.62	764.33	
RW-8	7/8/2013	--	--	--	13.17	2.69	777.50	
RW-8	7/12/2013	--	--	--	13.16	2.47	790.66	
RW-8	7/15/2013	--	--	--	9.44	0.00	800.10	
RW-8	7/19/2013	--	--	--	13.17	2.92	813.27	
RW-8	7/22/2013	--	--	--	10.62	0.00	823.89	
RW-8	7/26/2013	--	--	--	9.86	0.00	833.75	
RW-8	8/9/2013	--	--	--	15	0.00	848.75	
RW-8	8/16/2013	--	--	--	15.08	0.00	863.83	
RW-8	8/19/2013	--	--	--	15.32	0.00	879.15	
RW-8	8/23/2013	--	--	13.60	14.9	0.00	894.05	
RW-8	8/26/2013	--	--	--	15.37	0.00	909.42	
RW-8	9/5/2013	--	--	--	12.19	2.83	921.61	
RW-8	9/9/2013	--	--	--	12.18	3.25	933.79	
RW-8	9/13/2013	--	--	--	12.18	8.28	945.97	
RW-8	9/16/2013	--	--	--	14.08	5.30	960.05	
RW-8	9/20/2013	--	--	--	14.07	4.09	974.12	
RW-8	9/23/2013	--	--	--	14.07	4.49	988.19	
RW-8	9/27/2013	--	--	--	13.18	4.27	1001.37	
RW-8	9/30/2013	--	--	--	13.18	5.66	1014.55	
RW-8	10/4/2013	--	--	--	13.17	5.64	1027.72	
RW-8	10/7/2013	--	--	--	13.17	4.92	1040.89	
RW-8	10/25/2013	--	--	--	8.20	6.55	1049.09	
RW-8	10/28/2013	--	--	--	8.20	6.51	1057.29	
RW-8	11/1/2013	--	--	--	8.20	6.88	1065.49	
RW-8	11/4/2013	--	--	--	8.20	6.75	1073.69	
RW-8	11/8/2013	--	--	--	8.17	6.93	1081.86	
RW-8	11/12/2013	--	--	--	8.17	5.66	1090.03	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-8	11/15/2013	--	--	--	8.16	6.45	1098.19	
RW-8	11/18/2013	--	--	--	11.45	4.32	1109.64	
RW-8	3/28/2014	--	--	13.50	14.32	1.04	1123.96	
RW-8	4/1/2014	--	--	--	14.32	1.95	1138.28	
RW-8	4/4/2014	--	--	--	14.32	0.70	1152.60	
RW-8	4/8/2014	--	--	--	13.75	0.50	1166.35	
RW-8	4/11/2014	--	--	8.00	13.72	0.74	1180.07	
RW-8	4/15/2014	--	--	--	13.70	1.79	1193.77	
RW-8	4/16/2014	--	--	12.00	0.00	0.00	1193.77	Bottom at 50.85'
RW-8	4/18/2014	--	--	--	14.32	1.00	1208.09	
RW-8	4/25/2014	--	--	--	13.44	0.00	1221.53	
RW-8	4/29/2014	--	--	--	14.31	0.31	1235.84	
RW-8	5/2/2014	--	--	--	12.22	3.25	1248.06	
RW-8	5/6/2014	--	--	--	12.22	0.14	1260.28	
RW-8	5/9/2014	--	--	--	9.88	0.00	1270.16	
RW-8	5/13/2014	--	--	--	12.22	0.03	1282.38	
RW-8	5/16/2014	--	--	--	10.97	1.57	1293.35	
RW-8	5/19/2014	--	--	--	10.97	1.60	1304.32	
RW-8	5/22/2014	--	--	--	10.96	1.66	1315.28	
RW-8	5/27/2014	--	--	--	10.96	0.69	1326.24	
RW-8	8/14/2014	--	--	--	16.32	3.78	1342.56	
RW-8	8/22/2014	--	--	--	16.32	3.38	1358.88	
RW-8	8/29/2014	--	--	--	13.70	1.77	1372.58	
RW-8	9/5/2014	--	--	--	15.00	3.30	1387.58	
RW-8	9/12/2014	--	--	-	14.50	1.20	1402.08	
RW-8	9/19/2014	--	--	--	13.90	1.10	1415.98	
RW-8	9/25/2014	--	--	--	12.00	3.48	1427.98	
RW-8	10/3/2014	--	--	--	12.50	0.86	1440.48	
RW-8	10/10/2014	--	--	--	12.50	1.70	1452.98	
RW-8	10/17/2014	--	--	--	17.36	1.28	1470.34	
RW-8	10/24/2014	--	--	--	12.50	0.30	1482.84	
RW-8	10/31/2014	--	--	--	12.00	0.72	1494.84	
RW-8	11/6/2014	--	--	--	11.00	1.28	1505.84	
RW-8	12/29/2014	--	--	-	0.00	0.00	1505.84	Unable to measure DNAPL thickness due to airlift assembly
RW-8	3/4/2015	--	--	15.00	0.00	0.00	1505.84	Bottom at 51.00'
RW-8	3/13/2015	--	--	--	21.15	4.48	1526.99	
RW-8	3/20/2015	--	--	--	20.21	0.00	1547.20	
RW-8	3/27/2015	--	--	--	17.64	3.03	1564.84	
RW-8	4/3/2015	--	--	--	17.64	0.55	1582.48	
RW-8	4/10/2015	--	--	--	14.64	0.00	1597.12	
RW-8	4/17/2015	--	--	--	15.50	1.64	1612.62	
RW-8	4/24/2015	--	--	--	14.00	2.36	1626.62	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-8	4/30/2015	--	--	--	12.96	1.51	1639.58	
RW-8	5/8/2015	--	--	--	8.52	1.64	1648.10	
RW-8	5/15/2015	--	--	--	8.52	1.49	1656.62	
RW-8	5/19/2015	--	--	9.00	0.00	0.00	1656.62	Botom at 49.50'
RW-8	5/22/2015	--	--	--	8.36	1.00	1664.98	
RW-8	6/5/2015	--	--	9.00	9.73	5.01	1674.71	
RW-8	6/19/2015	--	--	--	9.73	4.76	1684.44	
RW-8	7/2/2015	--	--	--	18.30	0.40	1702.74	
RW-8	7/13/2015	--	--	11.80	0.00	0.00	1702.74	
RW-8	7/17/2015	--	--	--	15.00	1.67	1717.74	
RW-8	7/31/2015	--	--	--	12.00	3.54	1729.74	
RW-8	8/14/2015	--	--	--	8.00	3.57	1737.74	
RW-8	8/28/2015	--	--	--	7.50	3.12	1745.24	
RW-8	9/11/2015	--	--	--	7.01	2.20	1752.25	
RW-8	9/25/2015	--	--	--	6.50	2.64	1758.75	
RW-8	9/28/2015	--	--	5.00	0.00	0.00	1758.75	Bottom at 52.00
RW-8	10/9/2015	--	--	--	5.00	5.33	1763.75	
RW-8	10/23/2015	--	--	--	7.74	2.04	1771.49	
RW-8	11/6/2015	--	--	--	10.16	0.00	1781.65	
RW-8	11/20/2015	--	--	--	6.37	0.00	1788.02	
RW-8	12/4/2015	--	--	--	0.82	0.00	1788.84	
RW-8	12/11/2015	--	--	--	11.90	0.00	1800.74	
RW-8	1/6/2016	--	--	10.80	0.00	0.00	1800.74	Bottom at 52.00'
RW-8	2/19/2016	--	--	14.60	0.00	0.00	1800.74	Bottom at 52.00'
RW-8	3/18/2016	--	--	--	18.00	2.83	1818.74	
RW-8	3/25/2016	--	--	--	11.00	3.09	1829.74	
RW-8	4/1/2016	--	--	--	12.17	3.59	1841.91	
RW-8	4/8/2016	--	--	--	12.80	3.17	1854.71	
RW-8	4/27/2016	--	--	--	9.91	0.00	1864.62	
RW-8	5/11/2016	--	--	--	12.04	1.98	1876.66	
RW-8	5/20/2016	--	--	--	10.00	2.51	1886.66	
RW-8	6/17/2016	--	--	--	10.00	4.95	1896.66	
RW-8	6/22/2016	--	--	9.60	0.00	0.00	1896.66	Bottom at 52.00'
RW-8	7/1/2016	--	--	--	9.00	2.18	1905.66	
RW-8	7/15/2016	--	--	--	7.00	3.36	1912.66	
RW-8	7/29/2016	--	--	--	7.00	2.98	1919.66	
RW-8	8/12/2016	--	--	--	6.38	1.48	1926.04	
RW-8	8/26/2016	--	--	7.10	6.27	1.62	1932.31	Bottom at 51.05'
RW-8	9/9/2016	--	--	4.10	5.76	2.96	1938.07	Bottom at 51.10'
RW-8	9/23/2016	--	--	--	5.75	1.78	1943.82	
RW-8	10/7/2016	--	--	--	5.50	2.21	1949.32	
RW-8	10/21/2016	--	--	3.90	4.50	3.38	1953.82	Bottom at 52.10'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-8	11/4/2016	--	--	--	4.50	2.98	1958.32	
RW-8	11/18/2016	--	--	--	4.00	1.48	1962.32	
RW-8	11/30/2016	--	--	--	4.00	2.60	1966.32	
RW-8	12/2/2016	--	--	0.60	0.00	0.00	1966.32	Bottom at 52.00'
RW-8	2/24/2017	--	--	13.10	0.00	0.00	1966.32	Bottom at 51.93'
RW-8	3/10/2017	--	--	--	12.00	0.94	1978.32	
RW-8	3/24/2017	--	--	--	10.00	2.32	1988.32	
RW-8	4/7/2017	--	--	--	9.15	0.56	1997.47	
RW-8	4/21/2017	--	--	7.60	7.00	0.26	2004.47	Bottom at 51.93'
RW-8	5/8/2017	--	--	--	6.76	0.50	2011.23	
RW-8	5/19/2017	--	--	--	7.00	1.23	2018.23	
RW-8	6/2/2017	--	--	--	5.00	2.09	2023.23	
RW-8	6/16/2017	--	--	--	4.00	1.82	2027.23	
RW-8	6/30/2017	--	--	--	3.88	3.27	2031.11	
RW-8	7/18/2017	--	--	4.80	3.50	2.35	2034.61	Bottom at 51.93'
RW-8	7/28/2017	--	--	--	3.00	2.34	2037.61	
RW-8	8/11/2017	--	--	-	3.00	1.77	2040.61	
RW-8	8/25/2017	--	--	--	4.00	0.15	2044.61	
RW-8	9/8/2017	--	--	--	3.45	1.63	2048.06	
RW-8	9/22/2017	--	--	--	3.15	1.26	2051.21	
RW-8	10/6/2017	--	--	--	3.00	1.43	2054.21	
RW-8	10/20/2017	--	--	2.60	3.00	1.54	2057.21	Bottom at 51.93'
RW-8	11/3/2017	--	--	--	2.46	0.41	2059.67	
RW-8	2/27/2018	--	--	9.40	0.00	0.00	2059.67	Bottom at 51.93'
RW-8	3/23/2018	--	--	--	7.27	7.61	2066.94	
RW-8	4/6/2018	--	--	--	5.00	4.96	2071.94	
RW-8	4/20/2018	--	--	--	3.00	3.28	2074.94	
RW-8	5/4/2018	--	--	--	3.00	2.09	2077.94	
RW-8	5/18/2018	--	--	2.50	3.00	1.74	2080.94	Bottom at 51.93'
RW-8	6/1/2018	--	--	--	2.00	1.79	2082.94	
RW-8	6/15/2018	--	--	--	2.32	2.15	2085.26	
RW-8	6/29/2018	--	--	--	2.00	3.04	2087.26	
RW-8	7/13/2018	--	--	--	2.00	1.98	2089.26	
RW-8	7/27/2018	--	--	--	2.00	1.83	2091.26	
RW-8	8/10/2018	--	--	1.30	2.00	1.48	2093.26	Bottom at 51.93'
RW-8	8/24/2018	--	--	--	2.00	2.96	2095.26	
RW-8	9/7/2018	--	--	--	2.00	1.11	2097.26	
RW-8	9/21/2018	--	--	--	2.50	1.23	2099.76	
RW-8	10/5/2018	--	--	--	2.50	0.48	2102.26	
RW-8	10/19/2018	--	--	--	2.50	1.54	2104.76	
RW-8	11/2/2018	--	--	--	2.00	3.30	2106.76	
RW-8	11/16/2018	--	--	--	2.41	2.33	2109.17	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-8	11/19/2018	--	--	0.50	0.00	0.00	2109.17	Bottom at 51.93'
RW-8	11/30/2018	--	--	--	2.41	1.38	2111.58	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-9	10/25/2012	--	--	12.50	10.75	1.25	10.75	
RW-9	10/26/2012	--	--	5.00	--	NB	10.75	
RW-9	10/29/2012	--	--	--	8.21	3.09	18.96	
RW-9	11/5/2012	--	--	12.00	8.21	3.78	27.17	
RW-9	11/14/2012	--	--	12.50	--	NB	27.17	
RW-9	11/26/2012	--	--	--	8.21	2.80	35.38	
RW-9	12/3/2012	--	--	9.80	10.07	0.00	45.45	
RW-9	12/4/2012	--	--	4.50	1.00	4.70	46.45	
RW-9	12/5/2012	--	--	4.00	3.50	2.37	49.95	
RW-9	12/14/2012	--	--	10.80	5.63	5.10	55.58	
RW-9	12/17/2012	--	--	5.50	5.64	5.22	61.22	
RW-9	12/28/2012	--	--	--	5.63	3.97	66.85	
RW-9	1/7/2013	--	--	15.60	9.41	0.00	76.26	
RW-9	1/14/2013	--	--	12.20	0.95	0.00	77.21	
RW-9	3/27/2013	--	--	20.00	17.85	29.75	95.06	
RW-9	4/18/2013	--	--	17.60	--	NB	95.06	
RW-9	4/22/2013	--	--	--	10.90	0.00	105.96	
RW-9	4/30/2013	--	--	--	0.60	0.00	106.56	
RW-9	8/23/2013	--	--	12.80	--	NB	106.56	Air Lift Plugged
RW-9	4/16/2014	--	--	16.00	0.00	0.00	106.56	Bottom at 48.05'
RW-9	4/21/2014	--	--	--	15.00	7.95	121.56	
RW-9	4/29/2014	--	--	--	1.34	0.00	122.90	
RW-9	5/2/2014	--	--	--	3.15	0.00	126.05	
RW-9	5/6/2014	--	--	--	4.25	6.30	130.30	
RW-9	5/9/2014	--	--	--	4.24	3.62	134.54	
RW-9	5/13/2014	--	--	--	4.24	1.08	138.78	
RW-9	5/16/2014	--	--	--	2.69	4.61	141.47	
RW-9	5/19/2014	--	--	--	2.68	2.08	144.15	
RW-9	5/22/2014	--	--	--	1.35	0.00	145.50	
RW-9	5/27/2014	--	--	--	2.68	1.02	148.18	
RW-9	8/14/2014	--	--	--	7.00	3.27	155.18	
RW-9	8/22/2014	--	--	--	5.59	0.00	160.77	
RW-9	8/29/2014	--	--	--	4.26	0.00	165.03	
RW-9	9/5/2014	--	--	--	5.00	3.75	170.03	
RW-9	9/12/2014	--	--	--	7.00	1.56	177.03	
RW-9	9/19/2014	--	--	--	6.35	1.27	183.38	
RW-9	9/25/2014	--	--	--	6.00	2.27	189.38	
RW-9	10/3/2014	--	--	--	5.78	1.45	195.16	
RW-9	10/10/2014	--	--	6.60	5.78	2.26	200.94	Botom at 52.10'
RW-9	10/17/2014	--	--	--	5.78	2.90	206.72	
RW-9	10/24/2014	--	--	--	5.78	4.17	212.50	
RW-9	10/31/2014	--	--	--	5.78	0.95	218.28	

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-9	11/6/2014	--	--	--	5.73	0.60	224.01	
RW-9	12/29/2014	--	--	16.10	0.00	0.00	224.01	Bottom at 53.90'
RW-9	3/4/2015	--	--	18.30	0.00	0.00	224.01	Botom at 52.10'
RW-9	3/13/2015	--	--	--	15.34	0.00	239.35	
RW-9	3/20/2015	--	--	--	15.00	3.99	254.35	
RW-9	3/27/2015	--	--	--	6.24	3.76	260.59	
RW-9	4/3/2015	--	--	--	6.23	2.99	266.82	
RW-9	4/10/2015	--	--	--	7.00	0.80	273.82	
RW-9	4/17/2015	--	--	--	7.00	0.49	280.82	
RW-9	4/24/2015	--	--	--	6.88	0.00	287.70	
RW-9	4/30/2015	-	--	--	0.81	5.82	288.51	
RW-9	5/8/2015	--	--	--	0.80	4.75	289.31	
RW-9	5/15/2015	--	--	--	0.78	3.79	290.09	
RW-9	5/19/2015	--	--	2.40	0.00	0.00	290.09	Bottom at 52.05'
RW-9	6/5/2015	--	--	7.00	0.00	0.00	290.09	
RW-9	6/19/2015	--	--	--	8.10	0.00	298.19	
RW-9	7/2/2015	--	--	--	12.31	0.00	310.50	
RW-9	7/13/2015	--	--	8.50	0.00	0.00	310.50	
RW-9	7/17/2015	--	--	--	10.39	0.00	320.89	
RW-9	7/31/2015	--	--	--	10.62	0.00	331.51	
RW-9	8/14/2015	--	--	--	7.00	1.42	338.51	
RW-9	8/28/2015	--	--	--	1.97	0.00	340.48	Issue with air line
RW-9	9/11/2015	--	--	--	6.00	1.78	346.48	Air line issue resolved
RW-9	9/25/2015	--	--	--	5.00	2.05	351.48	
RW-9	9/28/2015	--	--	2.20	0.00	0.00	351.48	Bottom at 52.80'
RW-9	10/9/2015	--	--	--	5.00	2.26	356.48	
RW-9	10/23/2015	--	--	--	5.48	0.00	361.96	Echpod glitch
RW-9	11/6/2015	--	--	--	4.91	3.51	366.87	
RW-9	11/20/2015	--	--	--	3.47	0.00	370.34	
RW-9	12/4/2015	--	--	--	9.16	1.04	379.50	
RW-9	12/11/2015	--	--	--	3.48	0.00	382.98	
RW-9	1/6/2016	--	--	11.50	0.00	0.00	382.98	Bottom at 52.80'
RW-9	2/19/2016	--	--	16.10	0.00	0.00	382.98	Bottom at 52.80'
RW-9	3/18/2016	--	--	--	6.00	0.21	388.98	Believe botttom is plugged, stop early.
RW-9	3/25/2016	--	--	--	0.00	0.00	388.98	Plugged
RW-9	4/5/2016	--	--	--	4.67	0.00	393.65	Pulled piping, fixed air line kink.
RW-9	4/8/2016	--	--	--	5.00	5.27	398.65	
RW-9	5/11/2016	--	--	--	8.87	1.27	407.52	
RW-9	5/20/2016	--	--	--	5.00	2.83	412.52	
RW-9	6/17/2016	--	--	--	7.00	3.28	419.52	
RW-9	6/22/2016	--	--	9.40	0.00	0.00	419.52	Bottom at 52.55'
RW-9	7/1/2016	--	--	--	6.00	2.06	425.52	

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Former Indiana Creosoting Company
Bloomington, Indiana

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RW-9	7/15/2016	--	--	--	6.00	4.12	431.52	
RW-9	7/29/2016	--	--	--	5.00	3.55	436.52	
RW-9	8/12/2016	--	--	--	5.00	2.59	441.52	
RW-9	8/26/2016	--	--	7.75	4.12	2.37	445.64	Bottom at 52.90'
RW-9	9/9/2016	--	--	5.50	4.04	1.48	449.68	Bottom at 52.90'
RW-9	9/23/2016	--	--	--	4.00	1.84	453.68	
RW-9	10/7/2016	--	--	--	3.75	1.88	457.43	
RW-9	10/21/2016	--	--	4.70	3.50	2.63	460.93	Bottom at 52.30'
RW-9	11/4/2016	--	--	--	3.50	2.29	464.43	
RW-9	11/18/2016	--	--	--	3.25	1.81	467.68	
RW-9	11/30/2016	--	--	--	3.00	3.63	470.68	
RW-9	12/2/2016	--	--	0.90	0.00	0.00	470.68	Bottom at 52.80'
RW-9	2/24/2017	--	--	12.70	0.00	0.00	470.68	Bottom at 52.80'
RW-9	3/10/2017	--	--	--	10.00	1.82	480.68	
RW-9	3/24/2017	--	--	--	8.50	4.00	489.18	
RW-9	4/7/2017	--	--	--	4.00	6.03	493.18	
RW-9	4/21/2017	--	--	6.90	4.00	3.84	497.18	Bottom at 52.60'
RW-9	5/8/2017	--	--	--	3.93	0.84	501.11	
RW-9	5/19/2017	--	--	--	4.98	1.39	506.09	
RW-9	6/2/2017	--	--	--	4.64	1.66	510.73	
RW-9	6/16/2017	--	--	-	4.50	1.24	515.23	
RW-9	6/30/2017	--	--	--	5.25	2.29	520.48	
RW-9	7/18/2017	--	--	6.40	5.25	2.35	525.73	Bottom at 52.15'
RW-9	7/28/2017	--	--	--	4.50	1.50	530.23	
RW-9	8/11/2017	--	--	--	4.50	2.66	534.73	
RW-9	8/25/2017	--	--	--	4.25	2.66	538.98	
RW-9	9/8/2017	--	--	--	5.00	1.11	543.98	
RW-9	9/22/2017	--	--	--	5.25	1.87	549.23	
RW-9	10/6/2017	--	--	--	5.00	2.36	554.23	
RW-9	10/20/2017	--	--	6.40	5.00	1.49	559.23	Bottom at 52.45'
RW-9	11/3/2017	--	--	--	5.00	1.64	564.23	
RW-9	11/17/2017	--	--	--	5.41	2.58	569.64	
RW-9	2/27/2018	--	--	10.50	5.00	1.49	574.64	Bottom at 52.45'
RW-9	3/23/2018	--	--	--	9.01	6.84	583.65	
RW-9	4/6/2018	--	--	--	6.00	3.49	589.65	
RW-9	4/20/2018	--	--	--	5.00	1.13	594.65	
RW-9	5/4/2018	--	--	--	5.00	2.96	599.65	
RW-9	5/18/2018	--	--	3.95	5.00	1.37	604.65	Bottom at 52.45'
RW-9	6/1/2018	--	--	-	4.00	2.67	608.65	
RW-9	6/15/2018	--	--	--	5.06	2.27	613.71	
RW-9	6/29/2018	--	--	--	3.95	0.00	617.66	
RW-9	7/13/2018	--	--	--	5.00	2.15	622.66	

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Bloomington, Indiana

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RW-9	7/27/2018	--	--	--	5.00	0.38	627.66	
RW-9	8/10/2018	--	--	5.60	5.00	1.86	632.66	Bottom at 52.45'
RW-9	8/24/2018	--	--	--	5.00	2.24	637.66	
RW-9	9/7/2018	--	--	--	5.00	0.78	642.66	
RW-9	9/21/2018	--	--	--	4.00	2.04	646.66	
RW-9	10/5/2018	--	--	--	4.00	1.91	650.66	
RW-9	10/19/2018	--	--	--	5.06	2.17	655.72	
RW-9	11/2/2018	--	--	--	4.00	2.13	659.72	
RW-9	11/16/2018	--	--	--	4.00	2.97	663.72	
RW-9	11/19/2018	--	--	2.60	0.00	0.00	663.72	Bottom at 52.45'
RW-9	11/30/2018	--	--	--	4.00	3.18	667.72	

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-10	11/14/2012	--	--	0.00	--	NB	0.00	
RW-10	3/26/2013	8.00	--	N/A	47.60	0.00	47.60	Removed 18' of sediment and DNAPL
RW-10	3/27/2013	8.00	--	6.50	10.00	7.85	57.60	
RW-10	4/2/2013	7.25	--	13.00	11.90	7.23	69.50	
RW-10	4/3/2013	--	--	11.40	12.00	6.00	81.50	
RW-10	4/4/2013	--	--	10.80	8.25	4.00	89.75	
RW-10	4/18/2013	--	--	15.50	--	NB	89.75	
RW-10	5/3/2013	--	--	--	10.00	9.90	99.75	
RW-10	5/6/2013	--	--	--	10.00	1.15	109.75	
RW-10	5/20/2013	--	--	--	10.00	10.68	119.75	
RW-10	5/23/2013	--	--	--	12.61	8.42	132.36	
RW-10	5/29/2013	--	--	--	12.61	2.81	144.97	
RW-10	6/10/2013	--	--	--	12.61	3.52	157.58	
RW-10	6/14/2013	--	--	--	4.46	11.10	162.04	
RW-10	6/24/2013	--	--	--	4.46	10.27	166.50	
RW-10	6/28/2013	--	--	--	4.46	6.14	170.96	
RW-10	7/1/2013	--	--	--	4.46	11.95	175.42	
RW-10	7/8/2013	--	--	--	1.59	8.47	177.01	
RW-10	7/12/2013	--	--	--	1.59	9.17	178.60	
RW-10	7/15/2013	--	--	--	1.60	8.98	180.20	
RW-10	7/19/2013	--	--	--	1.60	8.79	181.80	
RW-10	7/22/2013	--	--	--	2.89	7.95	184.69	
RW-10	7/26/2013	--	--	--	2.89	7.35	187.58	
RW-10	8/9/2013	--	--	--	2.89	7.71	190.47	
RW-10	8/16/2013	--	--	--	2.89	7.65	193.36	
RW-10	8/19/2013	--	--	--	2.89	6.61	196.25	
RW-10	8/23/2013	--	--	--	0.64	5.28	196.89	
RW-10	8/26/2013	--	--	0.08	0.64	5.42	197.53	Bottom at 58.30'
RW-10	9/5/2013	--	--	--	0.64	5.00	198.17	
RW-10	9/9/2013	--	--	--	0.64	4.55	198.81	
RW-10	9/13/2013	--	--	--	0.64	1.38	199.45	
RW-10	9/16/2013	--	--	--	0.64	2.26	200.09	
RW-10	9/20/2013	--	--	--	0.64	2.46	200.73	
RW-10	9/23/2013	--	--	--	0.64	1.40	201.37	
RW-10	9/27/2013	--	--	--	0.64	1.52	202.01	
RW-10	9/30/2013	--	--	--	0.63	2.21	202.64	
RW-10	10/4/2013	--	--	--	0.63	1.64	203.27	
RW-10	10/7/2013	--	--	--	0.63	2.52	203.90	
RW-10	10/28/2013	--	--	--	0.73	0.97	204.63	
RW-10	11/1/2013	--	--	--	0.73	1.32	205.36	
RW-10	11/4/2013	--	--	--	0.73	0.81	206.09	
RW-10	11/8/2013	--	--	--	0.73	1.15	206.82	

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RW-10	11/12/2013	--	--	--	0.73	0.25	207.55	
RW-10	11/15/2013	--	--	--	0.73	0.34	208.28	
RW-10	11/18/2013	--	--	--	0.72	0.28	209.00	
RW-10	3/28/2014	--	--	12.50	4.89	5.21	213.89	
RW-10	4/1/2014	--	--	--	2.11	8.02	216.00	
RW-10	4/4/2014	--	--	--	2.11	7.13	218.11	
RW-10	4/8/2014	--	--	--	2.11	2.78	220.22	
RW-10	4/11/2014	--	--	0.10	1.49	0.00	221.71	
RW-10	4/15/2014	--	--	0.10	2.11	0.24	223.82	
RW-10	4/16/2014	--	--	0.10	0.00	0.00	223.82	Bottom at 48.30'
RW-10	4/18/2014	--	--	--	2.11	3.70	225.93	
RW-10	5/13/2014	--	--	--	1.24	0.00	227.17	
RW-10	5/16/2014	--	--	--	1.20	0.00	228.37	
RW-10	5/19/2014	--	--	--	2.11	0.28	230.48	
RW-10	5/22/2014	--	--	--	0.23	1.07	230.71	
RW-10	5/27/2014	--	--	--	0.22	1.68	230.93	
RW-10	8/14/2014	--	--	--	3.22	0.00	234.15	
RW-10	8/22/2014	--	--	--	12.00	4.15	246.15	
RW-10	8/29/2014	--	--	--	4.53	0.48	250.68	
RW-10	9/5/2014	--	--	--	2.49	0.00	253.17	
RW-10	9/12/2014	--	--	--	1.26	0.00	254.43	
RW-10	10/10/2014	--	--	6.00	0.00	0.00	254.43	Bottom at 58.38'
RW-10	10/17/2014	--	--	--	4.43	2.36	258.86	
RW-10	10/24/2014	--	--	--	4.43	1.07	263.29	
RW-10	10/31/2014	--	--	--	2.61	0.00	265.90	
RW-10	12/29/2014	--	--	9.80	0.00	0.00	265.90	Bottom at 60.70'
RW-10	3/4/2015	--	--	9.90	0.00	0.00	265.90	Bottom at 58.40'
RW-10	3/13/2015	--	--	--	5.00	5.36	270.90	
RW-10	3/20/2015	--	--	--	5.00	0.30	275.90	
RW-10	3/27/2015	--	--	--	0.17	3.79	276.07	
RW-10	4/3/2015	--	--	--	0.17	1.32	276.24	
RW-10	4/10/2015	--	--	--	0.17	2.23	276.41	
RW-10	4/17/2015	--	--	--	0.17	1.01	276.58	
RW-10	4/24/2015	--	--	--	0.17	1.10	276.75	
RW-10	5/19/2015	--	--	0.10	0.00	0.00	276.75	Bottom at 58.55'
RW-10	6/5/2015	--	--	0.10	0.00	0.00	276.75	
RW-10	7/13/2015	--	--	0.00	0.00	0.00	276.75	
RW-10	9/28/2015	--	--	0.10	0.00	0.00	276.75	Bottom at 59.10'
RW-10	1/6/2016	--	--	0.10	0.00	0.00	276.75	Bottom at 58.35'
RW-10	2/19/2016	--	--	0.20	0.00	0.00	276.75	Bottom at 59.00'
RW-10	6/22/2016	--	--	0.10	0.00	0.00	276.75	Bottom at 59.10'
RW-10	9/9/2016	--	--	0.00	0.00	0.00	276.75	Bottom at 59.00'

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RW-10	10/21/2016	--	--	0.10	0.00	0.00	276.75	Bottom at 59.00'
RW-10	12/2/2016	--	--	0.10	0.00	0.00	276.75	Bottom at 59.00'
RW-10	2/24/2017	--	--	0.30	0.00	0.00	276.75	Bottom at 59.00'
RW-10	4/21/2017	--	--	0.30	0.00	0.00	276.75	Bottom at 59.00'
RW-10	7/18/2017	--	--	0.20	0.00	0.00	276.75	Bottom at 59.00'
RW-10	10/20/2017	--	--	0.20	0.00	0.00	276.75	Bottom at 59.00'
RW-10	2/27/2018	--	--	0.10	0.00	0.00	276.75	Bottom at 59.00'
RW-10	5/18/2018	--	--	0.10	0.00	0.00	276.75	Bottom at 59.00'
RW-10	8/10/2018	--	--	0.00	0.00	0.00	276.75	Bottom at 59.00'
RW-10	11/19/2018	--	--	0.30	0.00	0.00	276.75	Bottom at 59.00'
RW-11	11/14/2012	--	--	0.00	--	NB	0.00	
RW-11	3/26/2013	8.00	--	N/A	0.00	15.00	0.00	
RW-11	3/27/2013	42.00	--	0.00	0.00	5.00	0.00	
RW-11	4/2/2013	31.00	--	0.04	0.00	0.00	0.00	
RW-11	4/4/2013	29.50	--	0.08	0.00	0.00	0.00	
RW-11	4/18/2013	--	--	0.13	--	NB	0.00	
RW-11	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 54.95'
RW-11	9/18/2013	--	--	0.10	0.00	25.00	0.00	DNAPL at start, well drawdown
RW-11	4/16/2014	--	--	0.10	0.00	0.00	0.00	Bottom at 55.10'
RW-11	9/5/2014	--	--	0.10	0.00	0.00	0.00	Bottom at 55.05'
RW-11	12/29/2014	--	--	0.10	0.00	0.00	0.00	Bottom at 56.60'
RW-11	3/4/2015	--	--	0.20	0.00	0.00	0.00	Bottom at 55.10'
RW-11	5/19/2015	--	--	0.10	0.00	0.00	0.00	Bottom at 55.10'
RW-11	1/6/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 55.00'
RW-11	2/19/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 55.00'
RW-11	6/22/2016	--	--	0.10	0.00	0.00	0.00	Bottom at 55.00'
RW-11	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 55.00'
RW-11	10/21/2016	--	--	0.30	0.00	0.00	0.00	Bottom at 55.00'
RW-11	12/2/2016	--	--	0.20	0.00	0.00	0.00	Bottom at 55.00'
RW-11	2/24/2017	--	--	0.20	0.00	0.00	0.00	Bottom at 55.00'
RW-11	4/21/2017	--	--	0.10	0.00	0.00	0.00	Bottom at 55.00'
RW-11	7/18/2017	--	--	0.10	0.00	0.00	0.00	Bottom at 55.00'
RW-11	10/20/2017	--	--	0.20	0.00	0.00	0.00	Bottom at 56.00'
RW-11	2/27/2018	--	--	0.20	0.00	0.00	0.00	Bottom at 56.00'
RW-11	5/18/2018	--	--	0.05	0.00	0.00	0.00	Bottom at 56.00'
RW-11	8/10/2018	--	--	0.05	0.00	0.00	0.00	Bottom at 56.00'
RW-11	11/19/2018	--	--	0.10	0.00	0.00	0.00	Bottom at 56.00'
RW-12	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 55.23'
RW-12	9/18/2013	--	--	0.10	0.00	100.00	0.00	DNAPL at start w/ sediment, clear
RW-12	4/16/2014	--	--	0.80	0.00	0.00	0.00	Bottom at 56.6'

Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-12	4/18/2014	--	--	--	0.60	2.14	0.60	
RW-12	4/29/2014	--	--	--	0.53	0.06	1.13	
RW-12	5/2/2014	--	--	--	0.53	2.55	1.66	
RW-12	5/6/2014	--	--	--	0.53	6.98	2.19	
RW-12	5/9/2014	--	--	--	0.53	5.23	2.72	
RW-12	5/13/2014	--	--	--	0.53	3.25	3.25	
RW-12	5/16/2014	--	--	--	0.53	2.32	3.78	
RW-12	5/19/2014	--	--	--	0.53	3.48	4.31	
RW-12	5/22/2014	--	--	--	0.53	2.77	4.84	
RW-12	5/27/2014	--	--	--	0.53	1.54	5.37	
RW-12	8/14/2014	--	--	--	0.00	3.92	5.37	
RW-12	9/5/2014	--	--	0.00	0.00	0.00	5.37	Bottom at 56.50'; stopped recovery
RW-12	10/10/2014	--	--	0.00	0.00	0.00	5.37	Bottom at 56.51'
RW-12	12/29/2014	--	--	0.00	0.00	0.00	5.37	Bottom at 59.80'
RW-12	3/4/2015	--	--	0.00	0.00	0.00	5.37	Bottom at 56.50'
RW-12	5/19/2015	--	--	0.00	0.00	0.00	5.37	Trace DNAPL on probe. Bottom at 56.60'
RW-12	7/13/2015	--	--	0.00	0.00	0.00	5.37	
RW-12	9/28/2015	--	--	0.00	0.00	0.00	5.37	Bottom at 56.60'
RW-12	1/6/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 56.50'
RW-12	2/19/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 56.50'
RW-12	6/22/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 57.75'
RW-12	9/9/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	10/21/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	12/2/2016	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	2/24/2017	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	4/21/2017	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	7/18/2017	--	--	0.00	0.00	0.00	5.37	Bottom at 54.50'; did not reach bottom
RW-12	10/20/2017	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	2/27/2018	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	5/18/2018	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'
RW-12	8/10/2018	--	--	0.00	0.00	0.00	5.37	Bottom at 57.30'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-13	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 60.75'
RW-13	9/18/2013	--	--	0.00	0.00	100.00	0.00	Clear
RW-13	4/16/2014	--	--	3.50	0.00	0.00	0.00	Bottom at 60.9'
RW-13	4/18/2014	--	--	--	0.36	2.81	0.36	
RW-13	4/29/2014	--	--	--	0.36	2.33	0.72	
RW-13	5/2/2014	--	--	--	0.36	3.44	1.08	
RW-13	5/6/2014	--	--	--	0.36	1.42	1.44	
RW-13	5/9/2014	--	--	--	0.36	2.04	1.80	
RW-13	5/13/2014	--	--	--	0.36	1.59	2.16	
RW-13	5/16/2014	--	--	--	0.36	1.93	2.52	
RW-13	5/19/2014	--	--	--	0.36	2.38	2.88	
RW-13	5/22/2014	--	--	--	0.36	1.62	3.24	
RW-13	5/27/2014	--	--	--	0.34	1.61	3.58	
RW-13	8/14/2014	--	--	--	0.18	3.13	3.76	
RW-13	9/5/2014	--	--	0.05	0.00	0.00	3.76	Bottom at 60.95'; stopped recovery
RW-13	10/10/2014	--	--	0.30	0.00	0.00	3.76	Bottom at 60.94'
RW-13	12/29/2014	--	--	0.80	0.00	0.00	3.76	Bottom at 62.50'
RW-13	3/4/2015	--	--	1.00	0.00	0.00	3.76	Bottom at 60.95'
RW-13	5/19/2015	--	--	1.10	0.00	0.00	3.76	Bottom at 61.10'
RW-13	7/13/2015	--	--	1.10	0.00	0.00	3.76	
RW-13	9/28/2015	--	--	1.50	0.00	0.00	3.76	Bottom at 62.00'
RW-13	1/6/2016	--	--	1.50	0.00	0.00	3.76	Bottom at 61.00'
RW-13	2/19/2016	--	--	1.60	0.00	0.00	3.76	Bottom at 59.95'
RW-13	6/22/2016	--	--	1.80	0.00	0.00	3.76	Bottom at 62.00'
RW-13	9/9/2016	--	--	1.70	0.00	0.00	3.76	Bottom at 62.00'
RW-13	10/21/2016	--	--	1.70	0.00	0.00	3.76	Bottom at 61.90'
RW-13	12/2/2016	--	--	1.40	0.00	0.00	3.76	Bottom at 62.00'
RW-13	2/24/2017	--	--	2.00	0.00	0.00	3.76	Bottom at 62.00'
RW-13	4/21/2017	--	--	2.00	0.00	0.00	3.76	Bottom at 62.00'
RW-13	7/18/2017	--	--	2.00	0.00	0.00	3.76	Bottom at 62.00'
RW-13	10/20/2017	--	--	1.90	0.00	0.00	3.76	Bottom at 62.00'
RW-13	2/27/2018	--	--	2.10	0.00	0.00	3.76	Bottom at 62.00'
RW-13	5/18/2018	--	--	1.90	0.00	0.00	3.76	Bottom at 62.00'
RW-13	8/10/2018	--	--	1.35	0.00	0.00	3.76	Bottom at 62.00'
RW-13	11/19/2018	--	--	2.10	0.00	0.00	3.76	Bottom at 62.00'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-14	6/4/2013	--	--	--	24.65	25.35	24.65	
RW-14	6/28/2013	--	--	20.00	14.78	6.02	39.43	
RW-14	7/1/2013	--	--	--	14.68	0.00	54.11	
RW-14	7/8/2013	--	--	--	14.74	0.76	68.85	
RW-14	7/12/2013	--	--	--	6.80	8.46	75.65	
RW-14	7/15/2013	--	--	--	6.80	9.36	82.45	
RW-14	7/19/2013	--	--	--	6.80	3.47	89.25	
RW-14	7/22/2013	--	--	--	6.80	4.81	96.05	
RW-14	7/26/2013	--	--	--	2.72	8.16	98.77	
RW-14	8/9/2013	--	--	--	2.72	7.58	101.49	
RW-14	8/16/2013	--	--	--	2.72	8.16	104.21	
RW-14	8/19/2013	--	--	--	2.72	8.04	106.93	
RW-14	8/23/2013	--	--	1.50	2.72	7.85	109.65	Bottom at 58.15
RW-14	8/26/2013	--	--	--	2.09	8.73	111.74	
RW-14	9/5/2013	--	--	--	2.06	8.69	113.80	
RW-14	9/9/2013	--	--	--	2.06	8.19	115.86	
RW-14	9/13/2013	--	--	--	2.06	3.64	117.92	
RW-14	9/16/2013	--	--	--	2.06	3.42	119.98	
RW-14	9/20/2013	--	--	--	2.06	3.76	122.04	
RW-14	9/23/2013	--	--	--	2.06	3.01	124.10	
RW-14	9/27/2013	--	--	--	0.85	4.51	124.95	
RW-14	9/30/2013	--	--	--	0.85	5.03	125.80	
RW-14	10/4/2013	--	--	--	0.85	6.54	126.65	
RW-14	10/7/2013	--	--	--	0.85	4.53	127.50	
RW-14	10/25/2013	--	--	--	0.11	1.78	127.61	
RW-14	10/28/2013	--	--	--	0.11	3.20	127.72	
RW-14	11/1/2013	--	--	--	0.11	2.88	127.83	
RW-14	11/4/2013	--	--	--	0.11	1.65	127.94	
RW-14	11/8/2013	--	--	--	0.11	1.35	128.05	
RW-14	11/12/2013	--	--	--	0.10	1.90	128.15	
RW-14	11/15/2013	--	--	--	0.10	1.95	128.25	
RW-14	11/18/2013	--	--	--	0.10	1.75	128.35	
RW-14	3/28/2014	--	--	30.00	26.03	4.31	154.38	
RW-14	4/1/2014	--	--	41.00	28.56	1.22	182.94	
RW-14	4/4/2014	--	--	--	4.83	1.22	187.77	
RW-14	4/8/2014	--	--	--	9.25	1.22	197.02	
RW-14	4/11/2014	--	--	4.50	4.80	1.21	201.82	
RW-14	4/15/2014	--	--	3.00	4.29	1.21	206.11	
RW-14	4/16/2014	--	--	1.00	0.00	0.00	206.11	Bottom at 58.25'
RW-14	4/18/2014	--	--	--	2.34	1.21	208.45	
RW-14	4/29/2014	--	--	--	1.13	2.09	209.58	
RW-14	5/2/2014	--	--	--	1.09	2.73	210.67	

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-14	5/6/2014	--	--	--	1.09	8.44	211.76	
RW-14	5/9/2014	--	--	--	1.09	1.76	212.85	
RW-14	5/13/2014	--	--	--	1.09	1.29	213.94	
RW-14	5/16/2014	--	--	--	1.09	1.36	215.03	
RW-14	5/19/2014	--	--	--	1.09	1.05	216.12	
RW-14	5/22/2014	--	--	--	1.09	1.18	217.21	
RW-14	5/27/2014	--	--	--	1.09	0.26	218.30	
RW-14	8/14/2014	--	--	--	12.00	3.86	230.30	
RW-14	8/22/2014	--	--	--	4.50	0.14	234.80	
RW-14	8/29/2014	--	--	--	0.52	4.00	235.32	
RW-14	9/5/2014	--	--	--	0.52	2.98	235.84	
RW-14	9/12/2014	--	--	--	3.75	1.52	239.59	
RW-14	9/19/2014	--	--	--	0.52	3.68	240.11	
RW-14	9/25/2014	--	--	--	0.52	4.12	240.63	
RW-14	10/3/2014	--	--	--	0.52	2.60	241.15	
RW-14	10/10/2014	--	--	0.50	0.52	1.36	241.67	
RW-14	10/17/2014	--	--	--	0.52	0.53	242.19	
RW-14	10/24/2014	--	--	--	0.48	1.12	242.67	
RW-14	10/31/2014	--	--	--	4.20	0.00	246.87	
RW-14	11/6/2014	--	--	--	1.11	0.00	247.98	
RW-14	12/29/14	--	--	12.00	0.00	0.00	247.98	Bottom at 62.50'
RW-14	3/4/2015	--	--	21.70	0.00	0.00	247.98	Bottom at 58.40'
RW-14	3/13/2015	--	--	--	22.31	2.69	270.29	
RW-14	3/20/2015	--	--	--	19.98	0.00	290.27	
RW-14	3/27/2015	--	--	--	20.37	0.00	310.64	
RW-14	4/3/2015	--	--	--	3.02	9.05	313.66	
RW-14	4/10/2015	--	--	--	3.02	7.01	316.68	
RW-14	4/17/2015	--	--	--	3.01	5.42	319.69	
RW-14	4/24/2015	--	--	--	3.14	5.29	322.83	
RW-14	4/30/2015	--	--	--	3.14	3.39	325.97	
RW-14	5/8/2015	--	--	--	3.13	2.35	329.10	
RW-14	5/15/2015	--	--	--	3.12	2.18	332.22	
RW-14	5/19/2015	--	--	0.40	0.00	0.00	332.22	Bottom at 58.50'
RW-14	6/5/2015	--	--	0.75	0.00	0.00	332.22	
RW-14	7/13/2015	--	--	7.50	0.00	0.00	332.22	
RW-14	7/17/2015	--	--	--	10.18	0.00	342.40	
RW-14	7/31/2015	--	--	--	6.83	3.78	349.23	
RW-14	8/14/2015	--	--	--	3.00	2.17	352.23	
RW-14	8/28/2015	--	--	--	2.00	2.30	354.23	
RW-14	9/11/2015	--	--	--	2.00	0.98	356.23	
RW-14	9/25/2015	--	--	--	3.00	2.82	359.23	
RW-14	9/28/2015	--	--	0.75	0.00	0.00	359.23	Bottom at 59.40'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-14	10/9/2015	--	--	--	2.00	3.26	361.23	
RW-14	10/23/2015	--	--	--	2.00	2.79	363.23	
RW-14	11/6/2015	--	--	--	2.00	2.57	365.23	
RW-14	11/20/2015	--	--	--	3.37	0.00	368.60	
RW-14	12/4/2015	--	--	--	4.72	0.00	373.32	
RW-14	12/11/2015	--	--	--	3.48	0.00	376.80	
RW-14	1/6/2016	--	--	2.40	0.00	0.00	376.80	Bottom at 60.00'
RW-14	2/19/2016	--	--	9.80	0.00	0.00	376.80	Bottom at 59.50'
RW-14	3/18/2016	--	--	--	12.43	3.49	389.23	EchoPod issues, stop early
RW-14	3/25/2016	--	--	--	6.00	0.69	395.23	EchoPod issues, stop early
RW-14	4/1/2016	--	--	--	5.00	6.90	400.23	
RW-14	4/8/2016	--	--	--	3.00	3.60	403.23	
RW-14	5/11/2016	--	--	--	2.50	7.42	405.73	
RW-14	5/20/2016	--	--	--	1.50	3.98	407.23	
RW-14	6/17/2016	--	--	--	2.35	0.98	409.58	
RW-14	6/22/2016	--	--	1.20	0.00	0.00	409.58	Bottom at 59.20'
RW-14	7/1/2016	--	--	--	1.50	2.84	411.08	
RW-14	7/15/2016	--	--	--	1.50	2.32	412.58	
RW-14	7/29/2016	--	--	--	1.50	2.69	414.08	
RW-14	8/12/2016	--	--	--	1.50	2.12	415.58	
RW-14	8/26/2016	--	--	1.10	1.50	2.94	417.08	Bottom at 62.40'
RW-14	9/9/2016	--	--	0.70	1.02	2.39	418.10	Bottom at 60.56'
RW-14	9/23/2016	--	--	--	1.01	3.22	419.11	
RW-14	10/7/2016	--	--	--	1.01	1.82	420.12	
RW-14	10/21/2016	--	--	0.50	1.01	1.37	421.13	Bottom at 59.50'
RW-14	11/4/2016	--	--	--	1.01	1.67	422.14	
RW-14	11/18/2016	--	--	--	1.01	4.68	423.15	
RW-14	12/2/2016	--	--	1.10	0.00	0.00	423.15	Bottom at 59.50'
RW-14	2/24/2017	--	--	9.70	0.00	0.00	423.15	Bottom at 59.50'
RW-14	3/10/2017	--	--	--	10.56	1.44	433.71	
RW-14	3/24/2017	--	--	--	5.50	6.09	439.21	
RW-14	4/7/2017	--	--	--	3.50	6.21	442.71	
RW-14	4/21/2017	--	--	0.50	2.00	1.68	444.71	Bottom at 59.50'
RW-14	5/8/2017	--	--	--	2.00	0.49	446.71	
RW-14	5/19/2017	--	--	--	1.50	3.07	448.21	
RW-14	6/2/2017	--	--	--	0.25	1.68	448.46	
RW-14	6/16/2017	--	--	--	0.10	2.15	448.56	
RW-14	6/30/2017	--	--	--	0.10	1.08	448.66	
RW-14	7/18/2017	--	--	1.10	0.00	0.00	448.66	Bottom at 59.50'
RW-14	10/20/2017	--	--	3.20	0.00	0.00	448.66	Bottom at 59.50'
RW-14	2/27/2018	--	--	19.70	0.00	0.00	448.66	Bottom at 59.50'
RW-14	3/23/2018	--	--	--	33.00	10.08	481.66	

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-14	4/6/2018	--	--	--	2.80	7.77	484.46	Split in two drums
RW-14	4/20/2018	--	--	--	1.50	4.91	485.96	
RW-14	5/4/2018	--	--	--	1.50	3.22	487.46	
RW-14	5/18/2018	--	--	0.60	1.37	1.70	488.83	Bottom at 59.50'
RW-14	6/1/2018	--	--	--	1.00	2.76	489.83	
RW-14	6/15/2018	--	--	--	2.00	1.36	491.83	
RW-14	6/29/2018	--	--	--	1.95	3.44	493.78	
RW-14	7/13/2018	--	--	--	0.25	2.42	494.03	
RW-14	7/27/2018	--	--	--	0.25	1.58	494.28	
RW-14	8/10/2018	--	--	0.90	0.00	0.00	494.28	Bottom at 59.50'
RW-14	11/19/2018	--	--	2.85	0.00	0.00	494.28	Bottom at 59.50'

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WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-15	6/28/2013	--	--	9.50	3.40	7.42	3.40	
RW-15	7/3/2013	--	--	--	0.00	3.54	3.40	
RW-15	7/22/2013	--	--	--	3.40	7.12	6.80	
RW-15	7/26/2013	--	--	--	3.40	7.32	10.20	
RW-15	8/9/2013	--	--	--	0.46	2.99	10.66	
RW-15	8/16/2013	--	--	--	0.46	3.66	11.12	
RW-15	8/19/2013	--	--	--	0.46	2.99	11.58	
RW-15	8/23/2013	--	--	--	0.46	3.32	12.04	Not gauged during event
RW-15	8/26/2013	--	--	--	0.46	3.40	12.50	
RW-15	9/5/2013	--	--	--	0.45	3.00	12.95	
RW-15	9/9/2013	--	--	--	0.45	2.81	13.40	
RW-15	9/13/2013	--	--	--	0.45	1.96	13.85	
RW-15	9/16/2013	--	--	--	0.45	1.22	14.30	
RW-15	9/20/2013	--	--	--	0.45	1.57	14.75	
RW-15	9/23/2013	--	--	--	0.45	2.00	15.20	
RW-15	9/27/2013	--	--	--	0.45	2.64	15.65	
RW-15	9/30/2013	--	--	--	0.45	2.09	16.10	
RW-15	10/4/2013	--	--	--	0.45	1.24	16.55	
RW-15	10/7/2013	--	--	--	0.45	1.34	17.00	
RW-15	10/25/2013	--	--	--	0.11	2.54	17.11	
RW-15	10/28/2013	--	--	--	0.11	3.09	17.22	
RW-15	11/1/2013	--	--	--	0.11	1.89	17.33	
RW-15	11/4/2013	--	--	--	0.11	1.58	17.44	
RW-15	11/8/2013	--	--	--	0.11	1.24	17.55	
RW-15	11/12/2013	--	--	--	0.10	1.53	17.65	
RW-15	11/15/2013	--	--	--	0.10	1.46	17.75	
RW-15	11/18/2013	--	--	--	0.10	1.11	17.85	
RW-15	3/28/2014	--	--	7.6	4.00	5.61	21.85	
RW-15	4/1/2014	--	--	--	1.72	5.54	23.57	
RW-15	4/4/2014	--	--	--	1.72	8.17	25.29	
RW-15	4/8/2014	--	--	--	1.72	0.89	27.01	
RW-15	4/11/2014	--	--	--	1.72	1.01	28.73	
RW-15	4/15/2014	--	--	--	1.72	1.43	30.45	
RW-15	4/16/2014	--	--	0.30	0.00	0.00	30.45	Bottom at 56.8'
RW-15	4/18/2014	--	--	--	1.72	5.63	32.17	
RW-15	4/29/2014	--	--	--	1.07	0.80	33.24	
RW-15	5/2/2014	--	--	--	1.00	1.75	34.24	
RW-15	5/6/2014	--	--	--	1.00	0.56	35.24	
RW-15	5/9/2014	--	--	--	1.00	1.28	36.24	
RW-15	5/13/2014	--	--	--	1.00	0.60	37.24	
RW-15	5/16/2014	--	--	--	1.00	0.43	38.24	
RW-15	5/19/2014	--	--	--	1.00	1.04	39.24	

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-15	5/22/2014	--	--	--	0.88	0.00	40.12	
RW-15	5/27/2014	--	--	--	1.00	0.04	41.12	
RW-15	8/14/2014	--	--	--	1.79	1.47	42.91	
RW-15	9/5/2014	--	--	2.30	0.00	0.00	42.91	Bottom at 56.40'; stopped recovery
RW-15	10/10/2014	--	--	2.80	0.00	0.00	42.91	
RW-15	12/29/2014	--	--	6.90	0.00	0.00	42.91	Bottom at 59.80'
RW-15	3/4/2015	--	--	10.80	0.00	0.00	42.91	Bottom at 56.25'
RW-15	3/20/2015	--	--	--	16.49	8.25	59.40	
RW-15	3/27/2015	--	--	--	2.00	3.74	61.40	
RW-15	4/3/2015	--	--	--	1.81	0.00	63.21	
RW-15	4/10/2015	--	--	--	2.00	2.14	65.21	
RW-15	4/17/2015	--	--	--	0.06	3.53	65.27	
RW-15	4/24/2015	--	--	--	0.06	3.55	65.33	
RW-15	4/30/2015	--	--	--	0.06	1.24	65.39	
RW-15	5/19/2015	--	--	0.80	0.00	0.00	65.39	Bottom at 57.00'
RW-15	6/5/2015	--	--	1.25	0.00	0.00	65.39	
RW-15	7/13/2015	--	--	4.00	0.00	0.00	65.39	
RW-15	9/28/2015	--	--	5.40	0.00	0.00	65.39	Bottom at 58.00'
RW-15	1/6/2016	--	--	9.25	0.00	0.00	65.39	Bottom at 56.50'
RW-15	2/19/2016	--	--	14.00	0.00	0.00	65.39	Bottom at 58.15'
RW-15	3/18/2016	--	--	--	13.80	5.13	79.19	
RW-15	3/25/2016	--	--	--	8.00	3.51	87.19	
RW-15	4/1/2016	--	--	--	5.00	0.96	92.19	
RW-15	4/8/2016	--	--	--	4.00	1.03	96.19	
RW-15	5/11/2016	--	--	--	3.00	5.82	99.19	
RW-15	5/20/2016	--	--	--	2.00	1.42	101.19	
RW-15	6/17/2016	--	--	--	1.00	2.54	102.19	
RW-15	6/22/2016	--	--	0.60	0.00	0.00	102.19	Bottom at 58.00'
RW-15	7/1/2016	--	--	--	0.50	2.99	102.69	
RW-15	7/15/2016	--	--	--	0.29	0.78	102.98	
RW-15	9/9/2016	--	--	3.10	0.00	0.00	102.98	Bottom at 58.15'
RW-15	10/21/2016	--	--	5.60	0.00	0.00	102.98	Bottom at 58.15'
RW-15	11/30/2016	--	--	--	4.67	0.00	107.65	
RW-15	12/2/2016	--	--	4.50	0.00	0.00	107.65	Bottom at 59.50'
RW-15	2/24/2017	--	--	7.70	0.00	0.00	107.65	Bottom at 58.15'
RW-15	3/10/2017	--	--	--	8.00	1.71	115.65	
RW-15	3/24/2017	--	--	--	7.00	2.48	122.65	
RW-15	4/7/2017	--	--	--	5.00	4.98	127.65	
RW-15	4/21/2017	--	--	0.60	2.00	4.35	129.65	Bottom at 58.15'
RW-15	5/8/2017	--	--	--	1.17	0.76	130.82	
RW-15	5/19/2017	--	--	--	1.00	2.63	131.82	
RW-15	7/18/2017	--	--	4.10	0.00	0.00	131.82	Bottom at 58.15'

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-15	10/20/2017	--	--	9.30	0.00	0.00	131.82	Bottom at 58.20'
RW-15	11/3/2017	--	--	--	14.00	4.02	145.82	
RW-15	11/17/2017	--	--	--	5.69	5.44	151.51	
RW-15	2/27/2018	--	--	2.50	0.00	0.00	151.51	Bottom at 58.20'
RW-15	5/18/2018	--	--	4.10	0.00	0.00	151.51	Bottom at 58.20'
RW-15	6/1/2018	--	--	--	5.68	4.80	157.19	
RW-15	6/15/2018	--	--	--	1.00	3.78	158.19	
RW-15	7/27/2018	--	--	--	0.70	2.84	158.89	
RW-15	8/10/2018	--	--	0.10	0.09	0.84	158.98	Bottom at 58.20'
RW-15	11/19/2018	--	--	0.90	0.09	0.84	159.07	Bottom at 58.20'
RW-16	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 50.85
RW-16	4/16/2014	--	--	0.00	0.00	0.00	0.00	Trace DNAPL on probe. Bottom at 50.6'
RW-16	9/5/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 50.80'
RW-16	12/29/2014	--	--	0.00	0.00	0.00	0.00	Bottom at 51.45'
RW-16	3/4/2015	--	--	0.00	0.00	0.00	0.00	Bottom at 50.80'
RW-16	5/19/2015	--	--	0.00	0.00	0.00	0.00	Bottom at 50.65'
RW-16	1/6/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 50.70'
RW-16	2/19/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 50.70'
RW-16	6/22/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 50.70'
RW-16	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 51.50'
RW-16	10/21/2016	--	--	0.00	0.00	0.00	0.00	Botom at 51.70'
RW-16	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 51.50'
RW-16	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 51.50'
RW-16	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 51.50'
RW-16	7/18/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 51.50'
RW-16	10/20/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 51.20'
RW-16	2/27/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 51.20'
RW-16	5/18/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 51.20'
RW-16	8/10/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 51.20'
RW-16	11/19/2018	--	--	0.10	0.00	0.00	0.00	Bottom at 51.20'

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Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-17	8/23/2013	--	--	10.20	--	NB	0.00	Bottom at 41.55'; 9' of sediment in well
RW-17	4/16/2014	--	--	15.30	0.00	0.00	0.00	Bottom at 41.1'
RW-17	4/22/2014	--	--	--	36.04	0.00	36.04	Bottom at 48.0'
RW-17	4/25/2014	--	--	--	5.67	4.42	41.71	
RW-17	5/2/2014	--	--	--	2.36	7.88	44.07	
RW-17	5/6/2014	--	--	--	2.36	7.84	46.43	
RW-17	5/9/2014	--	--	--	2.35	8.14	48.78	
RW-17	5/13/2014	--	--	--	2.35	6.76	51.13	
RW-17	5/16/2014	--	--	--	1.35	8.09	52.48	
RW-17	5/19/2014	--	--	--	1.34	7.12	53.82	
RW-17	5/22/2014	--	--	--	1.34	5.63	55.16	
RW-17	5/27/2014	--	--	--	1.34	6.29	56.50	
RW-17	8/14/2014	--	--	--	20.00	3.79	76.50	
RW-17	8/22/2014	--	--	--	6.00	4.20	82.50	
RW-17	8/29/2014	--	--	--	0.22	4.89	82.72	
RW-17	9/5/2014	--	--	--	0.21	3.80	82.93	
RW-17	9/12/2014	--	--	--	0.21	2.18	83.14	
RW-17	9/19/2014	--	--	--	0.21	4.75	83.35	
RW-17	9/25/2014	--	--	--	2.91	0.93	86.26	
RW-17	10/3/2014	--	--	--	2.90	1.27	89.16	
RW-17	10/10/2014	--	--	0.50	1.10	0.00	90.26	
RW-17	10/17/2014	--	--	--	1.47	0.00	91.73	
RW-17	10/24/2014	--	--	--	1.22	0.00	92.95	
RW-17	11/6/2014	--	--	--	3.75	1.83	96.70	
RW-17	12/29/2014	--	--	3.60	0.00	0.00	96.70	Bottom at 51.20'
RW-17	3/13/2015	--	--	--	12.00	4.88	108.70	
RW-17	3/20/2015	--	--	--	3.00	2.34	111.70	
RW-17	3/27/2015	--	--	--	1.00	2.55	112.70	
RW-17	4/3/2015	--	--	--	0.96	0.00	113.66	
RW-17	4/10/2015	--	--	--	1.00	3.15	114.66	
RW-17	4/17/2015	--	--	--	1.00	2.45	115.66	
RW-17	4/24/2015	--	--	--	1.00	1.90	116.66	
RW-17	4/30/2015	--	--	--	1.00	2.14	117.66	
RW-17	5/8/2015	--	--	--	1.00	3.07	118.66	
RW-17	5/15/2015	--	--	--	0.42	2.79	119.08	
RW-17	5/19/2015	--	--	1.00	0.00	0.00	119.08	Bottom at 47.75'
RW-17	6/5/2015	--	--	2.00	0.00	0.00	119.08	
RW-17	7/13/2015	--	--	7.60	0.00	0.00	119.08	
RW-17	8/14/2015	--	--	--	15.00	9.30	134.08	
RW-17	8/28/2015	--	--	--	3.00	4.03	137.08	
RW-17	9/11/2015	--	--	--	2.50	3.87	139.58	
RW-17	9/25/2015	--	--	--	1.00	2.36	140.58	

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-17	9/28/2015	--	--	0.40	0.00	0.00	140.58	Bottom at 48.00'
RW-17	10/9/2015	--	--	--	1.50	1.98	142.08	
RW-17	10/23/2015	--	--	--	1.00	2.85	143.08	
RW-17	1/6/2016	--	--	4.30	0.00	0.00	143.08	Bottom at 47.80'
RW-17	2/19/2016	--	--	5.70	0.00	0.00	143.08	Bottom at 47.90'
RW-17	3/18/2016	--	--	--	10.00	4.16	153.08	
RW-17	3/25/2016	--	--	--	2.00	2.78	155.08	
RW-17	4/1/2016	--	--	--	1.00	1.42	156.08	
RW-17	4/8/2016	--	--	--	2.00	1.54	158.08	
RW-17	5/11/2016	--	--	--	2.00	5.04	160.08	
RW-17	5/20/2016	--	--	--	0.90	3.21	160.98	
RW-17	6/17/2016	--	--	--	4.11	3.73	165.09	
RW-17	6/22/2016	--	--	3.30	0.00	0.00	165.09	Bottom at 48.60'
RW-17	7/1/2016	--	--	--	3.50	2.34	168.59	
RW-17	7/15/2016	--	--	--	2.50	2.43	171.09	
RW-17	7/29/2016	--	--	--	2.00	2.81	173.09	
RW-17	8/12/2016	--	--	--	2.00	2.55	175.09	
RW-17	8/26/2016	--	--	0.90	2.00	2.41	177.09	Bottom at 49.80'
RW-17	9/9/2016	--	--	1.20	2.00	2.74	179.09	Bottom at 49.90'
RW-17	9/23/2016	--	--	--	1.75	2.22	180.84	
RW-17	10/7/2016	--	--	--	1.52	2.17	182.36	
RW-17	10/21/2016	--	--	1.10	1.50	3.98	183.86	Bottom at 43.40' (did not reach bottom)
RW-17	11/4/2016	--	--	--	1.25	2.03	185.11	
RW-17	11/18/2016	--	--	--	1.00	1.59	186.11	
RW-17	12/2/2016	--	--	0.70	0.00	0.00	186.11	Bottom at 48.50'
RW-17	2/24/2017	--	--	1.50	0.00	0.00	186.11	Bottom at 48.50'
RW-17	4/21/2017	--	--	4.00	0.00	0.00	186.11	Bottom at 48.50'
RW-17	7/18/2017	--	--	11.30	0.00	0.00	186.11	Bottom at 48.50'
RW-17	7/28/2017	--	--	--	19.66	0.00	205.77	
RW-17	8/11/2017	--	--	--	3.61	6.76	209.38	
RW-17	8/25/2017	--	--	--	2.00	3.78	211.38	
RW-17	9/8/2017	--	--	--	2.00	3.27	213.38	
RW-17	9/22/2017	--	--	--	2.00	3.57	215.38	
RW-17	10/6/2017	--	--	--	1.00	3.48	216.38	
RW-17	10/20/2017	--	--	1.35	0.96	4.10	217.34	Bottom at 48.50'
RW-17	11/3/2017	--	--	--	0.96	1.13	218.30	
RW-17	2/27/2018	--	--	3.80	0.00	0.00	218.30	Bottom at 48.50'
RW-17	5/18/2018	--	--	9.80	0.00	0.00	218.30	Bottom at 48.50'
RW-17	6/29/2018	--	--	--	18.00	6.59	236.30	
RW-17	7/13/2018	--	--	--	2.00	2.24	238.30	
RW-17	7/27/2018	--	--	--	2.00	1.49	240.30	
RW-17	8/10/2018	--	--	0.90	2.00	2.86	242.30	Botom at 48.50'

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Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-17	8/24/2018	--	--	--	1.00	1.39	243.30	
RW-17	9/7/2018	--	--	--	0.96	3.46	244.26	
RW-17	9/21/2018	--	--	--	1.20	1.22	245.46	
RW-17	10/5/2018	--	--	--	1.20	2.24	246.66	
RW-17	10/19/2018	--	--	--	1.20	3.06	247.86	
RW-17	11/2/2018	--	--	--	1.20	2.46	249.06	
RW-17	11/16/2018	--	--	--	1.20	2.44	250.26	
RW-17	11/19/2018	--	--	0.60	0.00	0.00	250.26	
RW-17	11/30/2018	--	--	--	1.16	2.65	251.42	

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RW-18	8/23/2013	--	--	0.00	--	NB	0.00	Bottom at 39.92'; 13' of sediment in well
RW-18	4/16/2014	--	--	3.30	0.00	0.00	0.00	Bottom at 39.0'
RW-18	4/23/2014	--	--	--	8.51	67.14	8.51	Bottom at 51.7'
RW-18	4/25/2014	--	--	--	3.13	2.22	11.64	
RW-18	4/29/2014	--	--	--	3.13	2.82	14.77	
RW-18	5/2/2014	--	--	--	3.13	2.62	17.90	
RW-18	5/6/2014	--	--	--	1.46	9.28	19.36	
RW-18	5/9/2014	--	--	--	1.46	9.19	20.82	
RW-18	5/13/2014	--	--	--	1.45	8.16	22.27	
RW-18	5/16/2014	--	--	--	1.45	8.77	23.72	
RW-18	5/19/2014	--	--	--	0.00	8.61	23.72	
RW-18	5/22/2014	--	--	--	0.00	6.67	23.72	
RW-18	5/27/2014	--	--	--	0.00	8.21	23.72	
RW-18	8/14/2014	--	--	--	5.50	4.45	29.22	
RW-18	8/22/2014	--	--	--	3.50	2.61	32.72	
RW-18	8/29/2014	--	--	--	0.15	3.84	32.87	
RW-18	9/5/2014	--	--	--	0.15	3.22	33.02	
RW-18	9/12/2014	--	--	--	1.00	1.71	34.02	
RW-18	9/19/2014	--	--	--	0.15	2.32	34.17	
RW-18	9/25/2014	--	--	--	0.15	1.06	34.32	
RW-18	10/3/2014	--	--	--	0.15	3.94	34.47	
RW-18	10/10/2014	--	--	0.50	0.15	1.11	34.62	
RW-18	10/17/2014	--	--	--	0.15	1.16	34.77	
RW-18	10/24/2014	--	--	--	0.14	0.83	34.91	
RW-18	12/31/2014	--	--	5.30	0.00	0.00	34.91	Bottom at 54.20'
RW-18	3/4/2015	--	--	4.90	0.00	0.00	34.91	
RW-18	3/27/2015	--	--	--	8.00	2.29	42.91	
RW-18	4/3/2015	--	--	--	2.00	2.99	44.91	
RW-18	4/10/2015	--	--	--	1.50	3.02	46.41	
RW-18	4/17/2015	--	--	--	1.50	2.14	47.91	
RW-18	4/24/2015	--	--	--	0.55	3.39	48.46	
RW-18	4/30/2015	--	--	--	0.55	2.01	49.01	
RW-18	5/8/2015	--	--	--	0.55	2.35	49.56	
RW-18	5/15/2015	--	--	--	0.55	2.09	50.11	
RW-18	5/19/2015	--	--	0.00	0.00	0.00	50.11	Trace DNAPL on Probe, Bottom at 48.75'
RW-18	6/5/2015	--	--	3.00	0.00	0.00	50.11	
RW-18	7/13/2015	--	--	0.10	0.00	0.00	50.11	
RW-18	9/28/2015	--	--	4.10	0.00	0.00	50.11	Bottom at 49.70'
RW-18	1/6/2016	--	--	10.75	0.00	0.00	50.11	Bottom at 51.25'
RW-18	2/19/2016	--	--	11.30	0.00	0.00	50.11	Bottom at 50.35'
RW-18	3/25/2016	--	--	--	13.00	1.35	63.11	Issues with EchoPod, stop early
RW-18	4/1/2016	--	--	--	4.59	5.48	67.70	

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

ARCADIS

Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-18	4/8/2016	--	--	--	1.50	1.74	69.20	
RW-18	5/11/2016	--	--	--	1.00	2.47	70.20	
RW-18	5/20/2016	--	--	--	0.50	2.27	70.70	
RW-18	6/17/2016	--	--	--	1.25	2.75	71.95	
RW-18	6/22/2016	--	--	1.50	0.00	0.00	71.95	Bottom at 50.75'
RW-18	7/1/2016	--	--	--	1.00	2.36	72.95	
RW-18	7/15/2016	--	--	--	0.44	0.75	73.39	
RW-18	9/9/2016	--	--	0.80	0.00	0.00	73.39	Bottom at 50.35'
RW-18	10/21/2016	--	--	3.70	0.00	0.00	73.39	Bottom at 50.40'
RW-18	11/30/2016	--	--	--	3.51	0.00	76.90	
RW-18	12/2/2016	--	--	5.80	0.00	0.00	76.90	Bottom at 52.60'
RW-18	2/24/2017	--	--	8.50	0.00	0.00	76.90	Bottom at 52.60'
RW-18	3/10/2017	--	--	--	7.50	2.39	84.40	
RW-18	3/24/2017	--	--	--	6.00	4.21	90.40	
RW-18	4/7/2017	--	--	--	3.00	5.54	93.40	
RW-18	4/21/2017	--	--	0.80	1.00	4.40	94.40	Bottom at 52.60'
RW-18	5/8/2017	--	--	--	0.80	1.19	95.20	
RW-18	5/19/2017	--	--	--	0.50	3.04	95.70	
RW-18	7/18/2017	--	--	3.80	0.00	0.00	95.70	Bottom at 52.60'
RW-18	10/20/2017	--	--	5.50	0.00	0.00	95.70	Bottom at 52.60'
RW-18	11/17/2017	--	--	--	14.35	0.00	110.05	
RW-18	2/27/2018	--	--	3.40	0.00	0.00	110.05	Bottom at 52.60'
RW-18	5/18/2018	--	--	5.40	0.00	0.00	110.05	Bottom at 52.60'
RW-18	6/29/2018	--	--	--	2.56	2.44	112.61	
RW-18	7/13/2018	--	--	--	2.50	3.37	115.11	
RW-18	7/27/2018	--	--	--	2.00	1.09	117.11	
RW-18	8/10/2018	--	--	0.05	1.00	0.71	118.11	Bottom at 52.60'
RW-18	11/19/2018	--	--	0.50	1.00	0.71	119.11	Bottom at 52.60'

Notes:
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ARCADIS

Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
RW-19	12/11/2015	--	--	--	0.00	55.00	0.00	Removed ~20' of sediment (bottom was at 19')
RW-19	1/6/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 39.00' (~13' of sediment in well)
RW-19	2/19/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 40.60' (~12' of sediment in well)
RW-19	4/5/2016	--	--	--	0.00	50.00	0.00	Removed remaining sediment from well; bottom at ~52'
RW-19	6/22/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 50.00'
RW-19	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.60'
RW-19	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	2/24/2017	--	--	0.40	0.00	0.00	0.00	Bottom at 49.50'
RW-19	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	7/18/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	10/20/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	2/27/2018	--	--	0.20	0.00	0.00	0.00	Bottom at 49.50'
RW-19	5/18/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	8/10/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50'
RW-19	11/19/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 49.50', silty
PH-1	8/23/2013	--	--	0.00	0.50	50.00	0.50	Bottom at 51.80'; DNAPL in well when purged
PH-1	9/18/2013	--	--	0.00	1.00	35.00	1.50	DNAPL at start and at 30 gal.
PH-1	1/31/2014	--	--	1.00	0.00	0.00	1.50	Bottom at 51.85'
PH-1	4/16/2014	--	--	1.00	0.00	0.00	1.50	Bottom at 51.8'
PH-1	8/29/2014	--	--	1.10	0.00	0.00	1.50	Bottom at 51.8'
PH-1	12/29/2014	--	--	0.25	0.00	0.00	1.50	Bottom at 52.10'
PH-1	3/4/2015	--	--	0.00	0.00	0.00	1.50	Trace, Bottom at 51.85'
PH-1	5/19/2015	--	--	0.60	0.00	0.00	1.50	Bottom at 51.90'
PH-1	10/19/2015	--	--	1.00	0.62	5.02	2.12	Bottom at 51.90'
PH-1	10/20/2015	Abandoned						
PH-3	8/23/2013	--	--	0.00	0.00	100.00	0.00	Bottom at 46.42'
PH-3	9/18/2014	--	--	0.00	0.00	100.00	0.00	Odor, sheen
PH-3	1/31/2014	--	--	0.30	0.00	0.00	0.00	Bottom at 46.50'
PH-3	4/16/2014	--	--	0.40	0.00	0.00	0.00	Bottom at 46.4'
PH-3	8/29/2014	--	--	0.50	0.00	0.00	0.00	Bottom at 46.4'
PH-3	12/29/14	--	--	1.00	0.00	0.00	0.00	Bottom at 46.60'
PH-3	3/4/2015	--	--	1.10	0.00	0.00	0.00	Bottom at 46.60'
PH-3	5/19/2015	--	--	2.75	0.00	0.00	0.00	Bottom at 46.60'
PH-3	10/19/2015	--	--	2.30	1.86	5.04	1.86	Bottom at 46.55'
PH-3	10/20/2015	Abandoned						

Notes:
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ARCADIS

Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
PH-7	8/23/2013	--	--	1.40	0.00	0.00	0.00	Bottom at 41.86'
PH-7	9/18/2013	--	--	1.60	0.00	0.00	0.00	Bottom at 41.9'
PH-7	1/31/2014	--	--	2.50	0.00	0.00	0.00	Bottom at 42.00'
PH-7	4/16/2014	--	--	3.00	0.00	0.00	0.00	Bottom at 41.9'
PH-7	8/29/2014	--	--	3.75	0.00	0.00	0.00	Bottom at 41.85'
PH-7	12/29/2014	--	--	3.50	0.00	0.00	0.00	Bottom at 42.10'
PH-7	3/4/2015	--	--	3.65	0.00	0.00	0.00	Bottom at 42.10'
PH-7	5/19/2015	--	--	4.00	0.00	0.00	0.00	Bottom at 42.10'
PH-7	10/19/2015	--	--	3.70	2.48	5.48	2.48	Bottom at 42.00'
PH-7	10/21/2015	Converted to RW-19						
PH-9	8/23/2013	--	--	0.00	0.00	100.00	0.00	Bottom at 38.15'; 3' of sediment in well
PH-9	9/18/2013	--	--	1	0.00	0.00	0.00	Bottom at 41.60'
PH-9	1/31/2014	--	--	1.50	0.00	0.00	0.00	Bottom at 41.50'
PH-9	4/16/2014	--	--	1.50	0.00	0.00	0.00	Bottom at 41.55'
PH-9	8/29/2014	--	--	1.50	0.00	0.00	0.00	Bottom at 41.75'
PH-9	12/29/2014	--	--	2.20	0.00	0.00	0.00	Bottom at 42.50'
PH-9	3/4/2015	--	--	2.35	0.00	0.00	0.00	Bottom at 41.70'
PH-9	5/19/2015	--	--	2.75	0.00	0.00	0.00	Bottom at 41.75'
PH-9	10/19/2015	--	--	3.00	2.79	2.83	2.79	Bottom at 41.70'
PH-9	10/20/2015	Abandoned						
PH-11	8/23/2013	--	--	0.20	-	0.00	0.00	Bottom at 41.58'
PH-11	9/18/2013	--	--	1.00	0.00	0.00	0.00	Bottom at 41.50'
PH-11	1/31/2014	--	--	1.20	0.00	0.00	0.00	Bottom at 41.50'
PH-11	4/16/2014	--	--	1.00	0.00	0.00	0.00	Bottom at 41.4'
PH-11	8/29/2014	--	--	0.90	0.00	0.00	0.00	Bottom at 41.70'
PH-11	12/31/2014	--	--	1.80	0.00	0.00	0.00	Bottom at 41.65'
PH-11	3/4/2015	--	--	1.90	0.00	0.00	0.00	Bottom at 41.65'
PH-11	5/19/2015	--	--	2.50	0.00	0.00	0.00	Bottom at 41.65'
PH-11	10/19/2015	--	--	2.10	1.86	4.81	1.86	Bottom at 41.60'
PH-11	10/10/2015	Abandoned						
					Total DNAPL Recovered (gal)	**Total Groundwater Recovered (gal)**		
					5205.15	**4995.32**		

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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
InterceDNAPL or Trench Collection Sump								
	3/5/2008	4.01	--	0.00	0.00	--	--	
	10/14/2008	6.36	--	0.00	0.00	--	--	
	10/17/2008	6.18	--	0.00	0.00	0.50	0.00	
	10/21/2008	6.35	--	0.00	0.00	0.25	0.00	
	12/9/2008	3.02	--	0.00	0.00	0.25	0.00	Clear water
	12/18/2008	5.59	--	0.00	0.00	0.25	0.00	Clear water
	12/30/2008	4.24	--	0.00	0.00	0.25	0.00	Clear water
	1/2/2009	4.32	--	0.00	0.00	0.25	0.00	Clear water
	1/7/2009	4.73	--	0.00	0.00	0.25	0.00	Slightly cloudy, slight odor
	1/14/2009	4.79'	--	0.00	0.00	0.25	0.00	Clear water
	1/23/2009	5.23	--	0.00	0.00	0.25	0.00	Clear water
	1/26/2009	5.86'	--	0.00	0.00	0.25	0.00	Slightly cloudy
	1/27/2009	5.40'	--	0.00	0.00	0.25	0.00	1.5' of grey water in bailer, rust globules, sheen present visible on water surface inside manhole, odor.
	1/28/2009	5.28'	--	0.00	0.00	0.25	0.00	Tan water
	2/5/2009	5.34	--	0.00	0.00	0.25	0.00	
	3/11/2009	4.30	--	0.00	0.00	0.25	0.00	
	3/17/2009	4.94	--	0.00	0.00	0.25	0.00	
	3/25/2009	3.14	13.98	0.00	0.00	0.25	0.00	
	3/31/2009	3.82	14.08	0.00	0.00	0.25	0.00	
	4/20/2009	4.07	--	--	--	--	--	
	4/29/2009	4.76	--	--	--	--	--	
	5/6/2009	4.42	--	--	--	--	--	
	5/11/2009	4.64	--	--	--	--	--	
	5/20/2009	4.62	--	--	--	--	--	
	5/27/2009	5.36	--	--	--	--	--	
	6/15/2009	4.51	--	--	--	--	--	
	6/24/2009	3.95	--	--	--	--	--	
	6/30/2009	5.16	--	--	--	--	--	
	7/31/2009	4.68	--	--	--	--	--	
	8/13/2009	5.62	--	--	--	--	--	
	8/26/2009	6.40	--	--	--	--	--	
	10/2/2009	5.10	--	--	--	--	--	
	10/6/2009	5.63	--	--	--	--	--	
	12/18/2009	4.68	--	--	--	--	--	
	2/3/2010	5.91	--	--	--	--	--	
	8/30/2010	6.49	--	0.00	--	--	--	
	10/10/2011	6.23	--	0.00	--	--	--	Bottom at 13.85'
	11/8/2011	6.27	--	0.00	--	--	--	Rusty colored
	4/16/2014	--	--	0.00	--	--	--	
	5/19/2015	--	--	0.00	0.00	0.00	0.00	Bottom at 13.80'

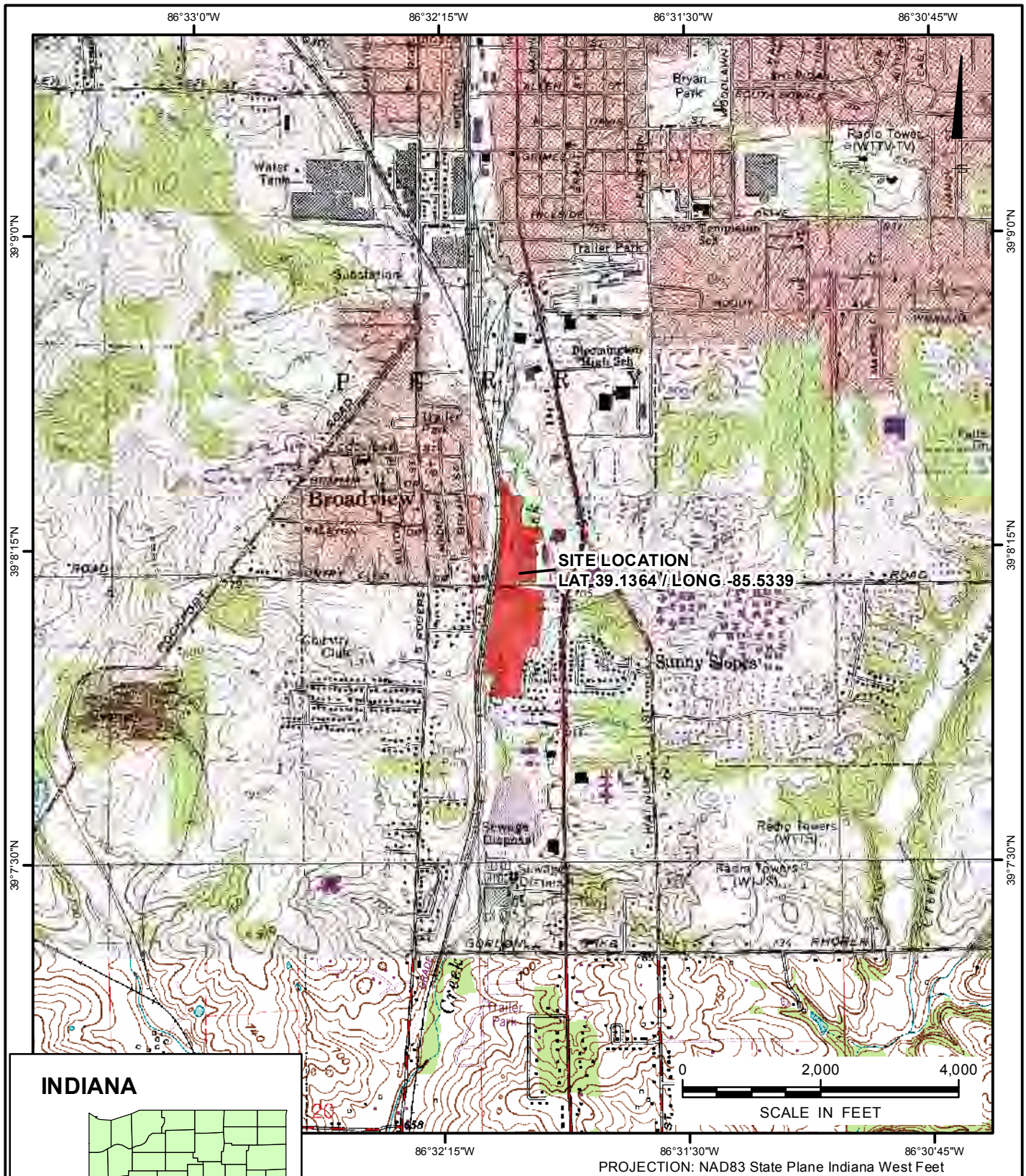
Notes:
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Table 6. DNAPL Recovery Data
Former Indiana Creosoting Company
Bloomington, Indiana

WELL ID	DATE	Initial DTW (fbtoc)	Final DTW (fbtoc)	DNAPL Thickness (feet)	DNAPL Removed (gal.)	Groundwater Removed (gal.)	Cumulative Volume of DNAPL Removed (gal.)	Remarks
	1/6/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 13.80'
	9/9/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	10/21/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	12/2/2016	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	2/24/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	4/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	7/21/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	10/20/2017	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	2/27/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	5/18/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	8/10/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'
	11/19/2018	--	--	0.00	0.00	0.00	0.00	Bottom at 14.00'

Notes:
fbtoc = feet below top of casing.
OBS = evidence of DNAPL observed but thickness not measured.
DTW = depth to water, NB = not bailed, NM = not measured.

FIGURES



PROJECTION: NAD83 State Plane Indiana West Feet



REFERENCE:
U.S.G.S. 7.5 Minute Series
Topographic Quadrangles:
Bloomington, Indiana 1977/1981,
Clear Creek, Indiana 1977/1981.
CONTOUR INTERVAL: 5 feet.

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

CURRENT CONDITIONS REPORT

Site Location Map

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: BALTOM
PROJECT: IN000072 PATH: G:\GIS\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F1 IN072_CC REG.MXD SAVED: 6/2/2016

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F2 IN072_CC SITE 201601.MXD SAVED: 1/30/2019

LEGEND

- Property Boundary
- Former Site Features
- Wetlands
- Creek Liner (2007)
- Interceptor Trench
- Monitor Well
- Monitor Well (abandoned)
- Recovery Well
- Pilot Hole (abandoned)
- Stream Gauge
- Sump

NOTES:
1) Grayed out numbers indicate that wells have been abandoned.
2) SURVEY: Bledsoe Riggert & Guerrettaz, Inc. (November 2012).
3) PROJECTION: NAD83 State Plane Indiana West Feet.
4) AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).
5) CONTOURS: Monroe County GIS LiDAR (2010).

MW-49A MW-49B MW-49C MW-9 MW-1D MW-1S MW-11S MW-11D MW-10 CAMDEN DR. CLEAR CREEK MW-P5 W. CARPENTER DR. S. MADISON ST. ABANDONED TRACKS MW-P4 MW-P3 MW-2D MW-2S MW-40A MW-40B MW-40C MW-44A OW-1 OW-3 OW-2 MW-P2 MW-14D MW-14S MW-16S MW-16D MW-12D MW-12S MW-29B MW-29A MW-P6 MW-35A MW-35C MW-35B RW-1 SG-4 MW-31C MW-31A MW-31B MW-15D MW-15S MW-3S MW-3D MW-P1 BRIDGE MW-20S MW-20D CITY WALK BRIDGE COUNTRY CLUB DRIVE MW-7D MW-7S MW-17S MW-17D MW-13 MW-25A RW-19 MW-18D MW-18S MW-21S MW-21D MW-45A MW-45B MW-45C MW-8S MW-8D SG-3 MW-39A MW-39B RW-3 MW-22D RW-16 RW-5 MW-42A MW-42B RW-7 MW-24A RW-2 RW-4 RW-6 COMMERCIAL WESTERN COMPOUND PH-01 MW-19S MW-19D PH-09 RW-17 (MW-27A) MW-23D MW-26A MW-4D MW-4S MW-55A MW-55B MW-38B MW-38C MW-38A MW-38D MW-41A MW-36B MW-36A MW-36C RW-15 LOT 1 MW-53A MW-53B SG-2 MW-30B MW-30A MW-5D MW-5S PH-03 EASTERN COMPOUND E. WALLS ST. MW-48A MW-48B RW-18 MW-54A MW-54B LOT 2 (CVS) RW-11 PH-11 RW-10 MW-6D MW-6S LOT 3 RW-12 Retention Pond MW-33A MW-33B MW-33C MW-51A MW-51B RW-8 RW-14 MW-34A LOT 4 RW-9 RW-13 SG-1 MW-28A MW-28C MW-28B MW-43A MW-37A MW-37B MW-37C MW-46A ACCESS ROAD MW-52A LIMESTONE DR. CHERRY ST BROOKSIDE DR. MW-32B MW-32C MW-32A MW-50A MW-50B GATE HOOSIER ST. MW-56A MW-56B PINEWOOD DR. MW-47A

0 250 500
SCALE IN FEET

Source: Esri, DigitalGlobe, Geo
AeroGRID, IGN, and the GIS Us

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

CURRENT CONDITIONS REPORT

Site Map

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F3 IN072_CC DNAPL THROUGH SPR2018.MXD SAVED: 1/30/2019

LEGEND

- Property Boundary
- Wetlands
- Creek Liner
- Pilot Hole Boring (abandoned)
- Recovery Well (Measureable DNAPL)
- Recovery Well (No Measureable DNAPL)
- Monitoring Well
- Monitoring Well (Historical DNAPL) - Sampled in 2018
- Monitoring Well (Historical Measureable DNAPL) - Sampled in 2018
- Monitoring Well (Measureable DNAPL) - Not Sampled in 2018
- Measured COC Concentration Groundwater Exceeds Industrial Closure Limits
- Measured COC Concentration Groundwater Exceeds Residential Closure Limits
- Measured COC concentrations are below Residential Cleanup Goals

NOTES:
1) In areas of tightly clustered data density, monitoring well locations have been offset for clarity.
2) Grayed out well numbers indicate well has been abandoned; analytical results from the well's last sampling event were utilized for the figure.
3) Figure reflects groundwater analytical data collected through Spring 2018.
4) All monitoring and recovery wells located north of Country Club Drive were sampled in July 2015.
5) Monitoring wells located on CSX property south of Country Club Drive, historically containing DNAPL, were not sampled in July 2015.

SURVEY: Bledsoe Riggert & Guerrettaz, Inc. (November 2012).
AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).
PROJECTION: NAD83 State Plane Indiana West Feet

MW-49A, MW-49B, MW-49C, MW-9, MW-1D, MW-1S, MW-11S, MW-11D, MW-10, CREEK, MW-P5, MW-P4, MW-P3, MW-2D, MW-2S, MW-44A, MW-40A, MW-40B, MW-40C, CLEAR, OW-1, OW-3, OW-2, MW-P2, MW-14D, MW-14S, MW-12D, MW-12S, MW-P6, MW-16S, MW-16D, MW-29B, MW-29A, MW-35A, MW-35C, MW-35B, RW-1, MW-31C, MW-31A, MW-31B, MW-15D, MW-15S, MW-7D, MW-7S, MW-3S, MW-3D, MW-P1, MW-20S, MW-20D, MW-17S, MW-17D, MW-13, MW-25A, RW-19, MW-18D, MW-18S, MW-21S, MW-21D, MW-39A, MW-39B, MW-45A, MW-45B, MW-45C, MW-8S, MW-8D, RW-3, MW-22D, RW-16, RW-5, MW-42A, MW-42B, RW-7, MW-24A, RW-2, RW-4, RW-6, PH-01, MW-19S, MW-19D, PH-09, RW-17 (MW-27A), MW-23D, MW-26A, MW-4D, MW-4S, MW-55A, MW-55B, MW-38B, MW-38C, MW-38A, MW-38D, MW-41A, MW-36B, MW-36A, MW-36C, RW-15, MW-53A, MW-53B, MW-30B, MW-30A, MW-5D, MW-5S, PH-03, MW-48A, MW-48B, RW-18, MW-54A, MW-54B, RW-11, PH-11, RW-10, MW-6D, MW-6S, RW-12, Retention Pond, MW-33A, MW-33B, MW-33C, MW-51A, MW-51B, RW-8, RW-14, MW-34A, RW-9, RW-13, MW-28A, MW-28C, MW-28B, MW-43A, MW-37A, MW-37B, MW-37C, MW-46A, MW-52A, MW-32B, MW-32C, MW-32A, MW-50A, MW-50B, MW-56A, MW-56B

0 250 500
SCALE IN FEET

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, and the GIS Us

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA
CURRENT CONDITIONS REPORT

Distribution of Creosote with VOCs and SVOCs Groundwater Quality Summary Through Spring 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) DB: (B.ALTOM) LD: (B.ALTOM) PIC:(-) PM: (S.SHARP) TM: (R.WOODRUFF)
PROJECT: IN000072 PATH: Z:\GISProjects_ENV\CSX\IN_Bloomington\MapDocs\2016\CURRENT CONDITIONS\F4 IN072_CC SOIL EXCAVATION.mxd SAVED: 1/30/2019 BY: acarlone



CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

CURRENT CONDITIONS REPORT

Excavation Areas

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F5 IN072_CC SEDIMENT REMOVAL.MXD SAVED: 1/30/2019



PROJECTION: NAD83 State Plane Indiana West Feet.
AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).

LEGEND

- Property Boundary
- Wetlands
- Sediment Removal Area

0 100 200
SCALE IN FEET

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA
CURRENT CONDITIONS REPORT

Sediment Removal Areas

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FIGURE
5



LEGEND

- Property Boundary
- 100-year Floodplain (FEMA - FIRM - Flood Insurance Rate Map)
- 4-ft. Fence/Gate
- 8-ft. Chain-Link Fence
- Conex Storage Box (8x20')
- Access Road (gravel)
- Access Path (dirt)

FIGURE UPDATED AS OF FEBRUARY 2015

0 80 160

SCALE IN FEET

AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).
PROJECTION: NAD1983 State Plane Indiana West Feet

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA
CURRENT CONDITIONS REPORT

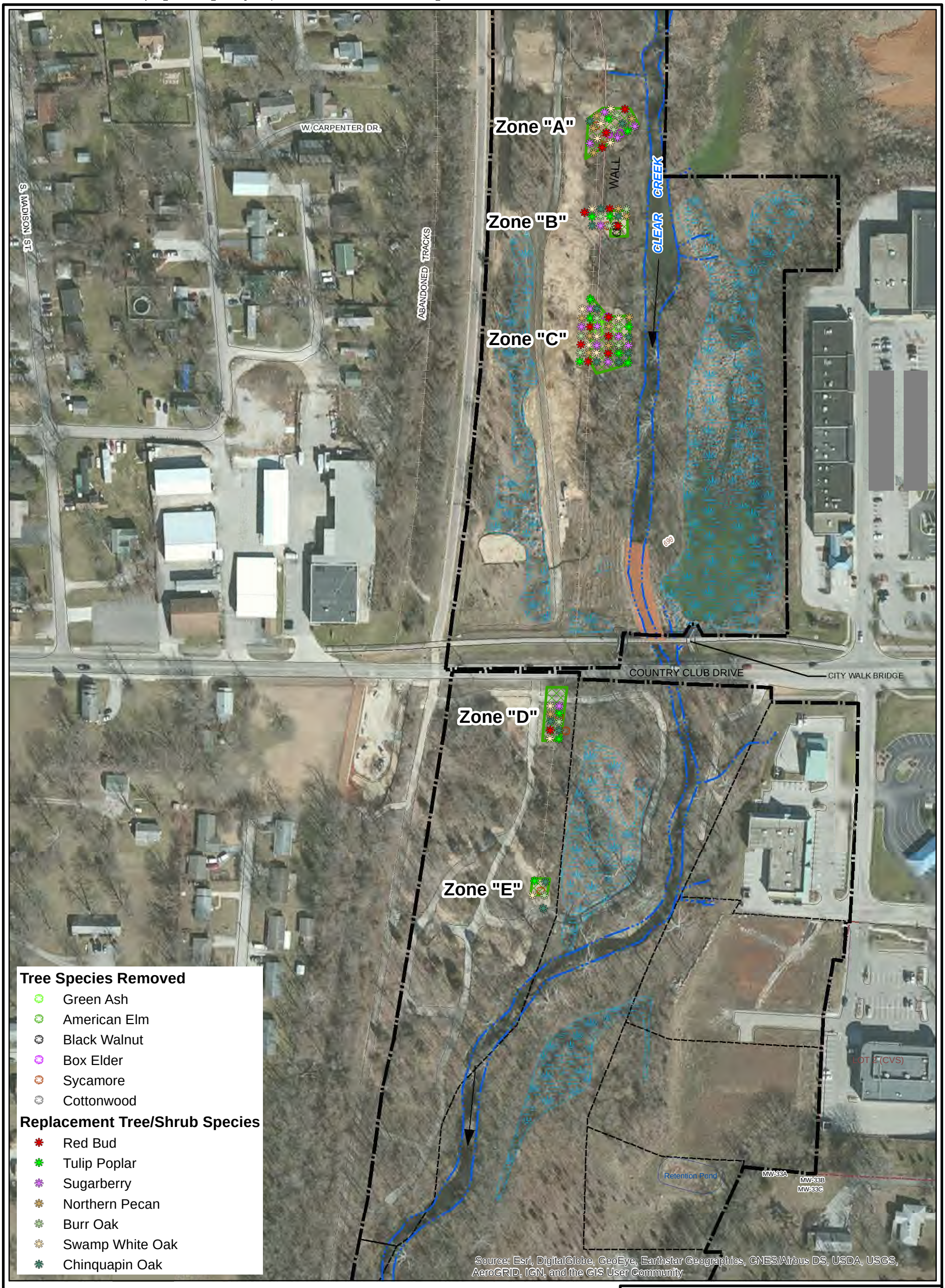
Hazardous Waste Storage Compound Layouts

ARCADIS Design & Consultancy for natural and built assets

FIGURE
6

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSXIN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F6 IN072 _CC COMPOUNDS.MXD SAVED: 1/30/2019

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) DB: (B.ALTOM) LD: (B.ALTOM) PIC:(-) PM: (S.SHARP) TM: (R.WOODRUFF)
PROJECT: IN000072 PATH: Z:\GISProjects_ENV\CSX\IN_Bloomington\MapDocs\2016\CURRENT CONDITIONS\F7 IN072_CC TREE MITIGATION.mxd SAVED: 1/30/2019 BY: acarlone



PROJECTION: NAD1983 State Plane Indiana West Feet
AERIAL SOURE: http://www.indiana.edu/~gisdata (2010).

LEGEND

- Property Boundary
- Wetlands
- Creek Liner
- Impacts of Non-Wetland Forest Area

0 160 320
SCALE IN FEET

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

CURRENT CONDITIONS REPORT

Tree Mitigation and Site Restoration Areas

ARCADIS Design & Consultancy for natural and built assets

FIGURE
7

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F8 IN072_CC WETLANDS DISTURB.MXD SAVED: 1/30/2019



LEGEND

- Monitor Well
- Recovery Well
- Pilot Hole (abandoned)
- Stream Gauge
- Sump
- Property Boundary
- Creek Liner (2007)
- Wetlands
- Temporary Impacted Wetlands
- Temporary Disturbed Area Due to Culvert Installation
- Gravel

NOTES:
1) Grayed out numbers indicate that wells have been abandoned.
2) PROJECTION: NAD83 State Plane Indiana West Feet.
3) AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA
CURRENT CONDITIONS REPORT

Roadway Disturbed Areas

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FIGURE
8

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) LD: (B.ALTOM) PIC: (-) PM: (S.SHARP) TM: (R.WOODRUFF) BY: ACARLONE
PROJECT: IN000072 PATH: Z:\GISPROJECTS_ENV\CSX\IN_BLOOMINGTON\MAPDOCS\2016\CURRENT CONDITIONS\F9 IN072_CC CULVERT.MXD SAVED: 1/30/2019

LEGEND

- Property Boundary
- Wetlands
- Creek Liner (2007)
- Interceptor Trench
- Monitor Well
- Monitor Well (abandoned)
- Recovery Well
- Pilot Hole (abandoned)
- Stream Gauge
- Sump
- Culvert Replacement Location (2016)

PROJECTION: NAD83 State Plane Indiana West Feet.
AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010).

NOTES:
1) Grayed out numbers indicate that wells have been abandoned.
2) SURVEY: Bledsoe Riggert & Guerrettaz, Inc. (November 2012).

MW-49A MW-49B MW-49C MW-9 MW-1D MW-1S MW-11S MW-11D MW-10 CAMDEN DR. Concrete Drives CREEK MW-P5 W. CARPENTER DR. WALL MW-P4 Culvert Replacement Location S. MADISON ST. ABANDONED TRACKS MW-P3 MW-2D MW-2S CLEAR MW-44A MW-40A MW-40B MW-40C OW-1 OW-3 OW-2 MW-P2 MW-14D MW-14S S. ROGERS ST. MW-16S MW-16D MW-12D MW-12S MW-29B MW-29A MW-P6 WALNUT STREET MW-35A MW-35C MW-35B RW-1 SG-4 MW-31C MW-31A MW-31B MW-15D MW-15S MW-3S MW-3D MW-P1 BRIDGE MW-20S MW-20D CITY WALK BRIDGE COUNTRY CLUB DRIVE MW-7D MW-7S MW-17S MW-17D MW-13 MW-25A RW-19 MW-18D MW-18S MW-21S MW-21D SG-3 MW-8S MW-8D MW-39A MW-39B MW-45A MW-45B MW-45C RW-3 MW-22D RW-16 RW-5 MW-42A MW-42B RW-4 RW-7 MW-24A RW-2 RW-6 COMMERCIAL WESTERN COMPOUND PH-01 MW-19S MW-19D PH-09 RW-17 (MW-27A) MW-23D MW-26A MW-4D MW-4S MW-55A MW-55B MW-38B MW-38C MW-38A MW-38D MW-41A MW-36B MW-36A MW-36C RW-15 LOT 1 MW-53A MW-53B SG-2 MW-30B MW-30A MW-5D MW-5S PH-03 EASTERN COMPOUND E. WALLS ST. MW-48A MW-48B RW-18 MW-54A MW-54B LOT 2 (CVS) RW-11 PH-11 RW-10 MW-6D MW-6S LOT 3 E. SUNNY S RW-12 Retention Pond MW-33A MW-33B MW-33C MW-51A MW-51B RW-8 LOT 4 RW-14 MW-34A RW-9 MW-28A MW-28C MW-28B RW-13 SG-1 MW-43A MW-37A MW-37B MW-37C MW-46A ACCESS ROAD MW-52A LIMESTONE DR. CHERRY ST. BROOKSIDE DR. MW-32B MW-32C MW-32A MW-50A MW-50B GATE HOOSIER ST. E. RIDGE MW-56A MW-56B 0 250 500 SCALE IN FEET PINEWOOD DR. MW-47A

Source: Esri, DigitalGlobe, Geo
AeroGRID, IGN, and the GIS Us

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

CURRENT CONDITIONS REPORT

City of Bloomington
Culvert Replacement

ARCADIS Design & Consultancy for natural and built assets

FIGURE
9

APPENDIX A

Monitoring Well and Construction Logs

SOIL BORING / SAMPLING LOG

Boring/Well: MW-32B & C | Project/No.: IN Creosote / IN000072.0064.00001 | Page 1 of 5

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/9/12 0:00

Drilling Date/Time Completed: 4/10/12 0:00

Drilling Contractor: Boart Longyear

Driller: Jason Greer

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4"

Sampling Interval: 5.0 feet

Land-Surface Elev.: _____ feet ☐ Surveyed ☐ Estimated

Water: _____

Total Depth Drilled: _____ Feet

Hole Diameter: 4.0

Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / E. Gercke

Hammer Weight: _____

Hammer Drop: _____ ins.

Boring Termination Depth: _____

Water: _____ gallons

GPS Coordinates: _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
0'-2'	Grab	13:20	--	BTEX, SVOCs, Metals
6'-8'	Grab	13:25	--	BTEX, SVOCs, Metals

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--		0.0' - 0.75'	**Topsoil,** organics; medium to dark brown
2.0	4.0	100	0.0	--		0.75' - 5.50'	**Clay,** reddish brown, gravels with weathered bedrock fragments, soft, slightly plastic; bedrock
4.0	6.0	100	0.0	--			fragments absent after 2.0', pebbles starting at 2.0'
6.0	8.0	100	0.0	--		5.50'- 6.25'	**Weathered Limestone Fragments**
8.0	10.0	100	0.0	--		6.25' - 8.00'	**Silty Clay,** medium brownish grey, soft, moist, pebbles and large gravels, trace sand
						8.00' - 10.00	**Bedrock;** fractured due to sonic drilling; set temporary 6" diameter stainless steel casing at 10.0'

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ROCK CORING / SAMPLING LOG

Boring/Well MW-32B & C Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.18	11.00	100	74.30	3.0	5	**10.18' - 11.06', Wackestone,** litght to medium grey, strong, massive; fenestrate bryozoa and
11.00	15.95	99	48.5	13.0	5	brachiopods.
15.95	20.46	90.2	65.0	12.0	10	10.38', fracture, clean, smooth
20.46	25.32	97.2	23.6	13.0	45	11.06', fracture, weathered along geode
25.32	26.15	100	0.0	4.0	3	**11.06' - 11.32', Geode,** fractured, with pea gravel (pebbles), rounded
26.15	30.36	100	77.0	13.0	32	**11.32' - 11.88', Weathered Mudstone/Siltstone,** light greenish grey with tan weathering along
30.36	36.00	100	87.20	16.0	15	fractures, pitted, moderate strength, moderately fractured
36.00	37.55	100	94.80	9.0	10	11.44'-11.49', fracture, weathered, pitted, tan
37.55	40.84	100	86.10	14.0	127	11.62'-11.64', fracture, weathered, pitted, tan
40.84	45.11	85.40	98.0	15.0	75	11.79'- 1.84', fracture, weathered, pitted, tan
45.11	50.17	100	--	10.0	35	**11.88' - 12.90', Mudstone/Siltstone,** medium to dark grey, thinly bedded, moderate strength,
						moderately fractured
						12.07'-12.13', fracture, smooth, bedding plane
						12.32'-12.46', fracture, bedding plane, weathered, fragments
						12.49'-12.50', fracture, clean
						12.50'-12.90', color change to medium grey, some Wackestone
						12.90' - 15.95', Wackestone/Packstone, medium bluish grey, strong, massive, mederately fractured
						12.86'-14.26', vertical fracture; healed from 12.80'-13.42'; open fracture from 13.42'-14.26',
						oxidation staining, clay infill, possible zone of water loss.
						13.42'-13.46', fracture, clay infill, possible zone of water loss
						13.84'-13.92', fracture, fragments, infill, oxidation, possible zone of water loss
						14.20'-14.24', fracture, infill, oxidation, possible zone of water loss
						15.14', fracture, clean
						15.95' - 21.29', Mudstone/Siltstone, dark grey, thinly bedded, strong, moderate strength,
						moderately to intensely fractured
						16.61'-16.65', fracture, bedding plane, clean
						17.08', fracture, bedding plane, clean
						17.19' 17.20', fracture, bedding plane, clean

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ROCK CORING / SAMPLING LOG

Boring/Well MW-32B & C Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						17.30'-17.37', geode
						17.37'-17.42', fracture along geode
						18.08'-18.10', fracture along geode
						18.10'-18.16', geode
						18.36'-18.39', geode
						18.65'-18.68', fracture, bedding plane, clean
						18.85'-19.02', heavily fractured, clay infill
						19.25'-19.31', heavily fractured, clay infill
						19.47', fracture, bedding plane, clean
						19.51', fracture, bedding plane, clean, along geode
						19.51'-19.72', geode
						19.85', fracture, bedding plane, clean
						19.85'-20.00', fracture at 45 degrees from horizontal
						21.08'-21.29', heavily fractured, geode
						21.29' - 22.13', Wackestone/Mudstone, medium grey, strong, massive, slightly fractured
						21.82'-21.83', fracture, bedding plane, clean
						22.06'-22.13', fracture, contact, weathered
						22.13' - 23.62', Packstone, light bluish grey, masive, moderate strength, intensely fractured, oxidation
						staining
						22.45'-23.62', heavily fractured, oxidation staining, sand infill, possible zone of water loss
						23.62' - 25.32', Int. Siltstone/Mustone and Packstone, medium grey, moderate strength, moderately
						fractured, massive beds (<0.3').
						23.89'-23.95', fracture, weathered, oxidation, possible zone of water loss
						23.89'-24.00', oxidation staining zone
						24.22'-24.34', heavily fractured, clay infill, possible zone of water loss
						23.34'-24.97', vertical fracture, oxidation, possible zone of water loss
						25.32' - 26.16', Packstone, heavily fractured, fractured geode

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ROCK CORING / SAMPLING LOG

Boring/Well MW-32B & C Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						26.15' - 29.62', Packstone/Wackestone, light to medium grey, strong, massive, thinly bedded,
						moderately to intensely fractured, few geodes
						26.27'-26.29', fracture, weathered, clean, possible zone of water loss
						26.53'-26.57', fracture, weathered, possible zone of water loss
						26.68'-26.74', fracture, weathered, clay infill, possible zone of water loss
						27.21'-27.75', Wackestone, bluish grey, nodules, lamination
						27.36', fracture, along lamina, clean
						28.07'-28.08', fracture, clean, slightly weathered
						28.43', fracture, along styolite
						29.62', fracture, contact
						29.62' - 37.55', Mudstone/Wackestone, dark greyish blue, moderate to strong, thinly bedded,
						slightly to moderately fractured
						30.36'-31.08', heavily fractured due to casing advancement
						31.10'-31.26', styolites
						31.65', fracture, clean
						32.11', fracture, clay infill
						33.05', fracture, clean
						33.25'-33.60', geodes
						37.48'-37.51', fracture along styolite, slightly weathered
						37.55' - 40.80', Wackestone with Packstone layers, light grey to bluish grey, slightly to moderately
						fractured, strong, massive to thinly bedded
						37.83'-37.92', fracture along styolite, slightly weathered
						38.03'-38.05', fracture along styolite, slightly weathered
						40.04'-40.07', fracture along styolite, slightly weathered
						40.80' - 44.03', Mudstone/Wackestone with some Packstone layers, dark grey, thinly bedded,
						crinoid layers, geodes, moderate to strong, slightly fractured
						41.46', fracture, planar, little mud infill
						43.90', fracture, planar

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ROCK CORING / SAMPLING LOG

Boring/Well MW-32B & C Project/No. IN Creosote / IN000072.0064.00001 Page 5 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						44.03' - 45.45', Packstone, light grey, massive, some greenish layers (glauconite), strong, moderately
						fractured
						44.72', fracture, along styolite and glauconite layers, clay infill
						44.76', fracture, along styolite and glauconite layers, clay infill
						45.45' - 50.17', Siltstone (Borden), dark grey, thinly bedded, moderate strength, slightly fractured
						45.45', fracture, contact, glauconite, clay infill, weathered
						45.78'-45.81', fracture, clay infill
						50.05'-50.06', fracture, clean
						EOB at 50.17'

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SOIL BORING / SAMPLING LOG

Boring/Well: MW-54A & B | Project/No.: IN Creosote / IN000072.0056.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/11/12 0:00

Drilling Date/Time Completed: 4/12/12 0:00

Drilling Contractor: Boart Longyear

Driller: Jason Greer

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4"

Sampling Interval: 5.0 feet

Land-Surface Elev.: _____ feet ☐ Surveyed ☐ Estimated

Water: _____

Total Depth Drilled: _____ Feet

Hole Diameter: 4.0

Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / E. Gercke

Hammer Weight: _____

Hammer Drop: _____ ins.

Boring Termination Depth: _____

Water: _____ gallons

GPS Coordinates: _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
0'-2'	Grab	8:55	--	BTEX, SVOCs, Metals
5'-6.5'	Grab	9:05	--	BTEX, SVOCs, Metals

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--		0 - 0.25'	**Topsoil,** grass and roots, organics
2.0	4.0	100	0.0	--		0.25' - 4.0'	**Clay,** dark brown, to medium brown, high plasticity, moist, soft
4.0	6.0	100	0.0	--		4.0' - 6.0'	**Clay and Gravel,** light brown, wet, sticky, angular gravel/fragments, some cobbles
6.0	8.0	100	0.0	--		6.0' - 6.5'	**Weathered bedrock,** light brownish red, clay and gravel, hard, stiff
8.0	10.0	100	0.0	--		6.5' -8.0'	**Bedrock, Packstone/Wackestone,** light grey, some fragments, competant, strong
						8.0' - 8.5'	**Clay and bedrock fragments,** light grey to dark grey, plastic, moist, wet
						8.5' - 10.0'	**Gravel and bedrock fragments, Packstone,** competant, light grey, strong; advance temporary 6"
							diameter stainless steel casing to 10.0'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-54A & B Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.16	11.00	100	45.20	4.0	10	**10.16' - 10.35', Weathered Rock Fragments,** fragmented due to casing advancement
11.00	15.91	98.2	90.7	14.0	55	**10.35' - 12.70', Packstone,** light grey to grey, strong, thinly bedded, moderately fractured
15.91	20.96	100	85.1	13.0	60	10.51'-10.57', fracture, 30 degrees from horizontal, clean
20.96	25.58	92.4	81.9	14.0	10	10.63', fracture, slightly weathered
25.58	30.53	99	100.0	13.0	0	11.70', fracture, clean
30.53	35.71	100	87.9	13.0	2	12.22'-12.23', fracture along styolite, little clay infill
35.71	40.22	90.2	91.70	11.0	20	12.65'-12.70', fracture, along contact, clay and pebble infill, possible water loss zone
						12.70' - 15.71', Mudstone, dark grey, strong, thinly bedded to massive, moderately fractured, geodes
						13.79'-13.80', fracture along geode, clay infill
						15.20'-15.35', geodes
						15.58', fracture along geode, slightly weathered
						15.60'-15.71', crinoid Packstone
						15.69', fracture, possible zone of water loss
						15.71' - 17.52', Wackestone, greyish green, strong, thinly bedded, moderately fractured, styolites,
						geodes
						16.18', fracture, slightly weathered
						16.36', fracture along geode
						17.01'-17.03', fracture along geodes, clean
						17.52', fracture along geodes, contact
						17.52'-19.80', Packstone, light grey, strong, massive to thinly bedded, sightly fractured, crinoids,
						geodes, styolites
						17.52'-17.65', geodes
						17.80'-17.84', fracture, 30 degrees from horizontal, clean
						18.50'-18.56', dark grey crinoid layer
						18.56', fracture, planar, clean
						19.80' - 21.08', Mudstone, dark grey, strong, thinly bedded to massive, slightly fractured, geodes
						20.96'-21.08', fragments due to casing advancement

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-54A & B Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						21.08' - 25.58', Packstone, light grey, strong, thinly bedded, moderately to intensely fractured,
						styolites, geodes, coarse layers
						21.15'-21.30', Mudstone layer
						21.23', fracture, clean
						21.45', fracture along styolite/ mudstone laminae, little clay infill, odor in return water
						21.57', fracture along styolite/ mudstone laminae, little clay infill, odor in return water
						21.64', fracture along styolite/ mudstone laminae, little clay infill, odor in return water
						22.26'-22.28', fracture along styolite, odor in return water
						22.74'-22.76', fracture along styolite, odor in return water
						22.90'-23.00', fracture zone along styolite, clay and rock fragment infill, odor in return water,
						possible zone of water loss
						23.67'-23.76', heavily fractured
						25.58' - 38.82', Mudstone/Wackestone with Int. Packstones, strong, medium to dark grey, slightly
						fractured, abundant geodes, massive to thinly beddes, crinoids in Packstone.
						26.19', fracture, planar, clean
						27.38', fracture, planar, clean
						28.59', fracture, along geode
						30.53'-30.84', vertical fracture, clean
						30.84', fracture, planar, clean
						31.51'-31.52', fracture, along geode
						31.61'-32.64', fracture, clean
						32.97'-32.99', fracture, along styolite, weathered, odor
						33.02'-33.06', fracture along styolite, weathered, odor
						33.30', fracture along geode/brachiopod layer
						33.97', fracture along geodes, clean
						37.10', fracture along geode
						38.23'-38.25', fracture, clean

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-54A & B Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / E. Gercke
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						38.82' - 39.60', Packstone, light grey, strong, moderately fractured, massive, int. wackestones
						39.26'-39.29', fracture, clean
						39.59'-39.60', styolite/glauconite layer, greenish in color
						39.60', fracture, contact
						39.60' - 40.22', Siltstone (Borden), dark grey, strong, thinly laminated, moderately fractured
						40.10', fracture, planar, clean.
						EOB at 40.22'

ARCADIS

SOIL BORING / SAMPLING LOG

Boring/Well: MW-55A & B | Project/No.: IN Creosote / IN000072.0056.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/12/12 0:00

Drilling Date/Time Completed: 4/13/12 0:00

Drilling Contractor: Boart Longyear

Driller: Jason Greer

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4"

Sampling Interval: 5.0 feet

Land-Surface Elev.: _____ feet ☐ Surveyed ☐ Estimated

Water: _____

Total Depth Drilled: _____ Feet

Hole Diameter: 4.0

Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff

Hammer Weight: _____

Hammer Drop: _____ ins.

Boring Termination Depth: _____

Water: _____ gallons

GPS Coordinates: _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
0'-2'	Grab	12:30	--	BTEX, SVOCs, Metals
4'-5'	Grab	12:40	--	BTEX, SVOCs, Metals

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	--	--		0 - 2.0'	**Fill Material/ Debris,** black, wood debris (rail road ties), black cinders, stone blocks, odor
2.0	4.0	100	--	--		2.0' - 3.0'	**Concrete/ Stone Blocks**
4.0	6.0	100	--	--		3.0' - 8.0'	**Sandy Clay,** brown, mottled browns with medium grey, coarse sand, pebbles, rounded river rock
6.0	8.0	100	--	--			(possible former creek bed), bedrock/limestone fragments, soft, moist, non plastic
						8.0' - 10.5'	**Bedrock,** Packstone, light to medium grey, brackiopods, fenestrate bryozoa, glauconite; advance
							temporary 6" diameter stainless steel casing to 10.5'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-55A & B Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.44	11.00	100	85.70	5.0	0	**10.44' - 11.50', Packstone,** light grey, strong, massive, glauconite, slightly fractured
11.00	16.00	100	91.4	12.0	0	10.92'-10.94', fracture, slight remodeling, clay infill, glauconite
16.00	20.97	98.6	94.7	13.0	0	11.00', fracture, clay infill, glauconite
20.97	25.44	90.2	81.1	13.0	50	**11.50' - 12.86', Mudstone/Wackestone,** medium grey, bedded, strong, moderately fractured
25.44	30.41	99.4	86.9	12.0	0	11.80'-11.82', fracture, clean
30.41	35.66	100	98.4	14.0	0	11.84'-11.85', fracture, clean
35.66	40.68	100	95.80	11.0	3	12.17'-12.19', fracture, clean
40.68	45.16	89.6	88.80	10.0	5	12.10'-12.17', small geode cluster
						12.35'-12.45', geode
						12.47'-12.57', Packstone sequence
						12.52'-12.55', fracture, clean
						12.82'-12.86', Packstone sequence
						12.86' - 14.53', Mudstone/Siltstone, dark greenish grey, strong, thinly bedded, unfractured
						15.73'-15.80', geode
						15.93'-16.02', geode
						16.82'-16.84', geode
						17.18'-17.46', large geode sequence
						17.46', fracture at geode, contact
						17.46'-18.97', Mudstone/Wackestone, medium grey, strong, slightly fractured, bedded, slight pitting
						18.37'-18.39', fracture, clean
						18.87'-19.55', Packstone/Grainstone, blue greenish grey, strong, massive, slightly fractured
						19.10', fracture, slight remodeling, partly healed, trace clay infill
						19.55'- 21.62', Mudstone, light greyish green, glauconite, bedded, strong, trace wackestone/packstone
						20.40'-21.29', vertical fracture, trace clay, possible zone of water loss
						21.57'-21.62', fracture, contact, possible zone of water loss
						21.62' - 23.92', Siltstone with Int. Packstone, dark grey, moderate strength, slightly to moderately
						fractured, thinly bedded
						21.62'-21.92', heavily fractured, weak, possible zone of water loss

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-55A & B Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						22.58'-22.71', geode
						22.55'-22.71', Packstone
						22.75'-22.90', Packstone
						22.92'-23.00', Packstone
						23.20'-23.35', Packstone
						23.92' - 24.18', Packstone/Grainstone, dark greenish grey, large crinoids, brachiopods, strong,
						massive, unfractured
						24.11', healed fracture
						24.16'-24.18', fracture, contact, partly healed
						24.18' - 26.09', Mudstone/Wackestone, medium greenish grey, glauconite, bedded, strong,
						unfractured
						25.95'-26.02', fracture, contact
						26.02'-26.09', Grainstone
						26.09' - 33.90', Mudstone, medium to dark grey, strong, bedded, slightly fractured, Int. Grainstone
						26.26'-26.28', fracture, clean
						26.77'-27.10', geodes, large, open
						26.90'-29.96', fracture, along geode
						27.58'-27.60', fracture, clean
						27.99'- 28.01', fracture, clean
						28.47', fracture, clean
						28.70'-29.07', Grainstone and geode sequence
						28.88'-28.91', fracture along geode
						29.88'-29.96', geode
						30.24'-30.35', geode
						31.13'-31.16', fracture, clean
						31.87', fracture, clean
						32.62'-32.87, Grainstone sequence

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-55A & B Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						33.90' - 35.66', Wackestone/Packstone, light grey, trace glauconite, strong, massive, slightly fractured
						34.00'-34.08', heavily fractured, weak
						34.90'-34.92', fracture, clean
						35.07'-35.21', Styolite
						35.66' - 41.32', Mudstone, light greyish green, strong, bedded, slightly fractured, geodes
						35.66'-36.00', geode, large
						36.09', color change to medium grey
						37.59'-37.61', fracture, clean
						39.30'-39.33', fracture along geode
						39.30'-39.42', geode sequence
						39.78'-39.80', fracture along geode
						40.44'-40.46', fracture, clean
						41.30'-41.32', fracture, conctact
						41.32' - 45.16', Siltstone (Borden), dark grey, thinly bedded, cross bedding, strong to moderate
						strength, sl fractured
						41.44'-41.47', fracture, clean
						41.76'-41.79', fracture, fragments.
						EOB at 45.16'

ARCADIS

SOIL BORING / SAMPLING LOG

Boring/Well: MW-56A & B   Project/No.: IN Creosote / IN000072.0056.00001

Site Location: Bloomington, Indiana   Drilling Date/Time Started: ______   Drilling Date/Time Completed: ______

Drilling Contractor: Boart Longyear   Driller: Jason Greer

Drilling Fluid Used: Water   Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4"   Sampling Interval: 5.0 feet

Land-Surface Elev. ______ feet ☐ Surveyed ☐ Estimated   Water ______

Total Depth Drilled ______ Feet   Hole Diameter 4.0   Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff   Hammer Weight ______   Hammer Drop ______ ins.

Boring Termination Depth ______   Water ______ gallons   GPS Coordinates ______

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
0'-2'	Grab	11:10	--	BTEX, SVOCs, Metals
5'-6.5'	Grab	11:25	--	BTEX, SVOCs, Metals

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS	Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--		0' - 0.50'	**Topsoil,** dark brown, organics
2.0	4.0	100	0.0	--		0.50' - 5.5'	**Silty Clay,** brown to reddish brown, soft, moist, plastic, sticky; increasing in moisture at 5.0';
4.0	6.0	100	0.0	--			bedrock fragments and sand starting at 6.0'; sand content increases with depth.
6.0	6.5	100	0.0	--		5.5' - 7.5'	**Bedrock,** advance temporary 6" diameter stainless steel casing to 7.5'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-56A & B Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
7.65	11.00	100	27.50	11.0	0	**7.65' - 11.83', Packstone/Grainstone,** light grey to off white, strong, massive, intensely fractured;
11.00	16.21	100	98.7	12.0	0	glauconite, fenestrate bryozoa, brachiopods, crinoids
16.21	20.82	92.2	94.2	11.0	0	7.73'-7.76', fracture, clean
20.82	26.00	100	98.1	12.0	0	7.83'-7.85', fracture, clean
26.00	30.47	89.4	83.4	12.0	0	8.02'-8.04', fracture, clean
30.47	35.36	97.8	100.0	11.0	16	8.20'-8.22', fracture, clean
35.36	39.75	87.8	97.30	12.0	0	8.34'-8.36', fracture, clean
39.75	44.98	100	100.00	14.0	15	8.38'-8.40', fracture, clean
44.98	50.10	100	97.10	13.0	10	8.42'-8.55', styolite
						8.90'-8.91', fracture, clean
						9.22'-9.23', fracture, clean
						9.40'-9.42', fracture, clean
						9.80'-9.85', fracture, trace clay infill
						9.85'-9.89', styolite
						10.08', healed fracture
						10.44'-10.46', fracture, clean
						10.65'-10.70', styolite
						10.70'-10.80', heavily fractured, clean
						11.42'-11.48', fracture, clean
						11.42'-11.52', styolite
						11.81'-11.83', fracture, contact
						11.83' - 14.11', Mudstone, light greenish grey, strong, bedded, slight to moderately fractured,
						glauconite
						11.98'-12.15', styolite
						12.54'-12.58', fracture along styolite
						14.02'-14.11', fracture, clay infill, possible zone of water loss, contact
						14.11' - 18.13', Packstone/Wackestone, light to medium grey, glauconite, strong, massive,
						moderately fractured

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-56A & B Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						14.08'-14.09', fracture, clean
						14.50'-14.62', styolite
						15.15'-15.24', styolite
						15.19'-15.21', fracture, clean
						15.77'-15.81', fracture, clean
						16.39'-16.42', fracture, pitted, glauconite
						16.49'-16.52', styolite
						17.82'-17.86', Mudstone sequence
						18.31' - 19.96', Mudstone/Siltstone with Int. Wackestone, medium to dark grey, strong, bedded,
						slightly fractured
						18.69'-18.71', fracture, weak
						18.73'-18.81', fracture, weak, possible zone of water loss
						19.96' - 24.95', Packstone, medium bluish grey, strong, massive, unfractured
						20.30'-20.41', styolites
						22.75'-23.55', Int. Mudstones
						23.55'-23.90', large crinoid sequence
						24.85'-25.00', fracture, contact, clay infill, possible zone of water loss
						24.95'-27.06', Wackestone, light to medium greenish grey, strong, massive, slightly fractured
						26.15', fracture, clean
						26.41'-26.44', fracture, trace clay infill
						26.52'-26.56', fracture, pitted
						27.05', 27.06', fracture, contact
						27.06' - 28.56', Siltstone, dark greenish grey, weak to moderate strength, thinly bedded, Int.
						Packstone
						27.06'-27.65', weak strength
						27.17'-27.21', heavily fractured, weak, brittle
						27.31', fracture, smooth
						27.65, fracture, smooth

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-56A & B Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:
Drilling Contractor: Boart Longyear
Driller: Jason Greer
Drilling Fluid Used: water
Drilling Method: Mini Sonic
Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet
Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:
Total Depth Drilled Feet Hole Diameter
Coring Device: HQ
Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.
Boring Termination Depth Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						28.56' - 31.18', Wackestone with Int. Mudstone/Packstone, light greenish grey, strong, massive,
						slightly fractured
						28.78'-28.82', fracture along geode
						28.80'-28.95', geode
						28.93'-28.95', fracture along geode
						31.18' - 33.70', Int. Packstone and Mudstone, medium greenish grey to medium bluish grey, strong,
						massive to 0.30' bedded sequences, slightly fractured
						32.39'-32.42', fracture, clean
						33.70' - 38.85', Siltstone with Int. Mudstone/Wackestone, dark grey, strong, bedded, slightly
						fractured
						34.08'-34.10', fracture, clean
						37.49'-37.50', fracture, clean
						37.90'-37.92', fracture, clean
						38.85' - 39.21', Packstone, light to medium grey, strong, massive, unfractured
						39.21', fracture, contact
						39.21' - 39.33', Weathered Siltstone/Mudstone, fragments with clay, dark greenish grey,
						glauconite, pyrite, slight odor, weak
						39.33', fracture, contact
						39.33' - 47.12', Mudstone/Siltstone with Int. Wackestone, medium greenish grey to dark grey,
						strong, bedded, geodes
						40.96'-41.07', geode, large
						42.50'-42.51', fracture, clean
						42.93'-42.96, fracture, clean
						43.93'-44.15', Packstone sequence
						44.06'-44.09', fracture, clean
						46.31'-46.50', Grainstone sequence
						47.12', fracture, contact

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well MW-56A & B Project/No. IN Creosote / IN000072.0064.00001 Page 5 of 5

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						47.12' - 50.10', Siltstone (Borden), dark grey, strong, bedded, slightly fractured
						47.12'-47.20', heavily fractured, weak, dark greenish grey, glauconite, clay infill
						EOB at 50.10'

SOIL BORING / SAMPLING LOG

Boring/Well RW-8 Project/No. IN Creosote / IN000072.0056.00001 Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/18/12 0:00

Drilling Date/Time Completed: 4/20/12 0:00

Drilling Contractor: Boart Longyear

Driller: Jason Greer

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4"

Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated

Water _____

Total Depth Drilled _____ Feet

Hole Diameter: 4.0

Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / W. Kuhn

Hammer Weight _____

Hammer Drop _____ ins.

Boring Termination Depth _____

Water _____ gallons

GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
0'-2'	Grab	8:45	--	BTEX, SVOCs, Metals
4.5'-5.5'	Grab	8:55	--	BTEX, SVOCs, Metals

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
2.0	2.5	75	0.0	--		0 - 1.5'	**Fill Material,** black,sand, silt, cinders, loose, root debris
2.5	5.0	75	0.0	--		1.5' - 5.5'	**Clay,** dark brown (10YR 3/3), very soft, high plasticity, slightly moist
5.0	7.5	100	0.0	--		5.5' - 7.5'	**Weathered Limestone,** fragments, friable, trace clays and silt, dry
7.5	9.5	100	0.0	--		7.5' - 9.5'	**Bedrock,** competant, set permanent 6" diameter stainless steel casing at 9.5'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-8 Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water:

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / W. Kuhn
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
9.85	11.00	100	94.70	7.0	N/A	**9.85' - 10.46', Wackestone,** light to medium grey, strong, massive, slightly fractured, glauconite
11.00	15.89	97.8	89.2	13.0	0	9.96'-9.98', fracture, clean
15.89	20.90	100	81.8	12.0	30	10.34'-10.37', styolites
20.90	25.79	97.8	88.5	13.0	10	10.43'-10.46', fracture, contact
25.79	31.10	100	100.0	13.0	0	**10.46' - 11.00', Siltstone,** dark grey, moderate strength, thinly bedded, unfractured
31.10	36.16	100	100.0	12.0	5	**11.00' - 11.20', Grainstone with Int. Siltstone,** dark to medium grey, strong, thinly bedded,
36.16	41.14	99.6	85.50	10.0	10	unfractured, large crinoids
41.14	46.09	99.0	93.90	12.0	0	**11.20' - 13.22', Wackestone,** light to medium grey, strong, massive, slightly fractured
						12.26'-12.40', geode
						12.60'-12.72', geode
						12.64', fracture along geode
						12.92', styolite
						12.97'-13.20', geode
						13.22' - 14.91', Packstone/Grainstone, medium grey, mooderate strength, moderately fractured,
						glauconite
						13.38'-13.41', fracture, silty infill
						13.95', fracture, slightly rough
						14.41'-14.48', healed fracture
						14.65', fracture, clay infill
						14.91' - 16.45', Mudstone with Int. Packstone, dark to medium grey, thinly bedded, moderate
						strength, unfractured
						16.06', fracture, smooth, clean
						16.11', fracture, rough
						16.37', fracture, rough, clay infill
						16.45', fracture, contact, smooth, clay infill
						16.45' - 19.69', Siltstone, dark gray, moderate strength, moderately fractured, thinly bedded,
						16.71'-16.76', geode
						18.10'-18.13', geode

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-8 Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water

Total Depth Drilled Feet
Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / W. Kuhn
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						18.18'-18.20, fracture along geode, smooth
						18.08'-18.25, geode
						18.73'-18.75', fracture along geode, smooth
						18.76'-18.86', geode
						19.69' - 20.82', Mudstone with Int. Wackestone, medium to dark grey, moderate strength,
						moderately fractured, massive with bedding
						19.80'-19.87', geode
						19.87'-19.89', fracture along geode, smooth
						20.18'-20.23', fracture, rough, clay infill
						20.82' - 23.59', Grainstone, light grey, strong, slightly fractured, massive, trace int. Wackestone,
						crinoids and brachiopods
						21.45'-21.48', fracture, glauconite, smooth
						21.48' - 21.54', styolite
						21.60'-21.65', geode
						22.82'-22.84', fracture, slightly rough
						23.18', styolite
						23.60' - 27.58', Siltstone, dark grey, moderate to weak strength, thinly bedded
						23.60'-23.87', fracture, contact, clay infill, greenish grey, odor
						25.50'-25.69', geode
						27.58', uneven contact
						27.58' - 28.32', Mudstone/Wackestone, light greenish to grey, strong, unfractured, thinly bedded
						27.67'-27.75', geode
						28.32' - 30.96', Packstone/Grainstone, light grey, massive, strong, crinoids
						29.62'-30.50', Int. Mudstone
						29.97'-30.00', Geode
						30.85'-30.87', Geode
						30.96' - 34.40', Mudstone, medium to dark grey, thinly bedded, strong slightly fractured
						31.35'-31.44', Int. Grainstone

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-8 Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started:
Drilling Date/Time Completed:

Drilling Contractor: Boart Longyear
Driller: Jason Greer

Drilling Fluid Used: water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5' by 4 1/2" barrel
Sampling Interval: 5.0' feet

Land-Surface Elev. feet ☐ Surveyed ☐ Estimated
Water

Total Depth Drilled Feet Hole Diameter
Coring Device: HQ

Prepared By: R. Woodruff / W. Kuhn
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth
Water: gallons
GPS Coordinates

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						31.51'-31.59', Int. Grainstone
						32.04'-32.11', geode
						32.20'-32.23', fracture, rough, geode in center
						33.39'-33.42', fracture, partly healed, rough
						34.40' - 36.83', Wackestone/Packestone, light grey, massive, strong, crinoids
						35.23', styolite
						35.30'-35.35', styolite
						35.89', styolite
						36.35'-36.58', heavily fractured, smooth, clay infill, possible zone of water loss
						36.73'-36.83', Clay interval, odor
						36.83' - 43.09', Mudstone with Int. Wackestone, medium to dark grey, thinly bedded, small geodes
						throughout section, strong
						40.46'-40.53', geode
						41.87'-42.10', Grainstone, geodes present
						42.15'-42.18', geode
						42.40'-42.61', fracture along large geode, rough, large cavity, botryoidal texture
						42.70'-42.75', Grainstone, crinoids present
						**Note: Odor during Run 8 from 41'-46'.
						43.09' - 43.62', Grainstone, light grey, massive, strong, crinoids, large geodes
						43.11'-43.20', geode
						43.62', fracture along Borden contact, smooth
						43.62' - 46.09', Siltstone (Borden), dark grey, thinly bedded, moderately fractured, strong
						44.75'-44.91', Int. Wackestone/Mudstone, geodes and crinoids present.
						EOB at 46.09'

SOIL BORING / SAMPLING LOG

Boring/Well: RW-9 Project/No.: IN Creosote / IN000072.0064.00001 Page: 1 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/15/12 11:15 Drilling Date/Time Completed: 10/16/12 0:00

Drilling Contractor: Major Drilling Driller: Dave Chamblee

Drilling Fluid Used: N/A Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5" Sampling Interval: 5.0 feet

Land-Surface Elev.: ____ feet [ ] Surveyed [ ] Estimated Water: ____

Total Depth Drilled: ____ Feet Hole Diameter: 4.0 Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / W. Kuhn Hammer Weight: ____ Hammer Drop: ____ ins.

Boring Termination Depth: ____ Water: gallons GPS Coordinates: ____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--		0 - 0.25'	**Topsoil, organics.**
2.0	4.0	100	0.0	--		0.25 - 2.00	**Fill Material,** black; cinders, gravels, railroad ties
4.0	6.0	100	0.0	--		2.00 - 4.50	**Weathered Limestone,** fossiliferous; crinoids, brachiopods, fractured, friable
6.0	8.0	100	0.0	--		4.50 - 6.50	**Clay,** brown, large gravels and cobbles, soft, plastic
8.0	10.0	100	0.0	--		6.50 - 8.50	**Weathered Siltstone,** tan, siltstone fragments, friable; brachiopods, fenestrate bryozoa
						8.50 - 10.0	**Competent Bedrock, Siltstone/Mudstone,** light grey
							***Set 6" diameter permanent stainless steel casing to 10.0' bgs.**

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ROCK CORING / SAMPLING LOG

Boring/Well RW-9 Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/15/12 11:15

Drilling Date/Time Completed: 10/16/12 0:00

Drilling Contractor: Major Drilling

Driller: Dave Chamblee

Drilling Fluid Used: City Water

Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"

Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated

Water _____

Total Depth Drilled _____ Feet

Hole Diameter 4.0

Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / W. Kuhn

Hammer Weight _____

Hammer Drop _____ ins.

Boring Termination Depth _____

Water _____ gallons

GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.0	30.0	N/A	N/A	N/A	1,135	***Blank Drilled from 10.0' to 30.0' bgs due to driller not having "speed increaser" on site**
31.59	35.69	100	89.7	32.0	140	-Limestone to 17.50'
35.69	41.03	100	81.0	23.0	95	-Siltstone from 17.50' to 22.50'
41.03	46.03	100	100.0	21.0	75	-Limestone from 22.50' to 30.0'
46.03	51.25	100	90.0	24.0	85	**31.59' - 31.80', Packstone,** dark bluish grey, strong, massive, unfractured.
						31.80' - 32.69', Mudstone/Siltstone, medium greenish grey, strong, thinly bedded, unfractured.
						32.69' - 32.72', fracture along geode and contact
						32.69' - 33.16', Grainstone/Packstone, light bluish grey, strong, massive, unfractured
						32.69' - 32.81', geode, open
						33.16' - 35.39', Mudstone/Siltstone, medium to dark greenish grey, slightly fractured, bedded, trace
						Packstone/Wackestone, small geodes, strong to moderate strength
						33.49' - 33.92', Packstone sequence
						35.24' - 35.26', fracture, slight clay infill, weak
						35.39' - 35.42', fracture, clay infill, contract
						35.39' - 46.03', Int. Siltstone/Mudstone/Packstone, medium to dark grey, some greenish grey,
						slightly fractured, strong, bedded with some massive intervals of Packstone, small geodes
						36.33' - 36.57', Packstone sequence
						38.12' - 39.00', heavily fractured, weathered, clay infill, weak; possible zone of water loss
						38.35' - 38.45', weathered siltstone interval, dark greenish grey grey to black, friable, sheen,
						soft clay, creosote odor
						38.65' - 38.85', vertical fracture
						39.00' - 39.50', greenish grey color, glauconite
						41.38' - 41.39', fracture, smooth
						44.56' - 44.62', Packstone/Grainstone sequence
						45.02' - 45.07', facture, 10° angle, smooth, clay infill
						45.90' - 46.03', Large geode, closed
						46.03' - 51.25', Siltstone (Borden), dark greenish grey, moderate strength, moderately fractured,
						small geodes; odor and DNAPL in return water.

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-9 Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 3

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 10/15/12 11:15
Drilling Date/Time Completed: 10/16/12 0:00

Drilling Contractor: Major Drilling
Driller: Dave Chamblee

Drilling Fluid Used: City Water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"
Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated
Water _____

Total Depth Drilled _____ Feet
Hole Diameter: 4.0
Coring Device: 5.0' coring barrel

Prepared By: R. Woodruff / W. Kuhn
Hammer Weight _____
Hammer Drop _____ ins.

Boring Termination Depth _____
Water: _____ gallons
GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						46.03' - 46.22', vertical fracture, odor, weak
						46.22' - 46.23', fracture, DNAPL in fracture, smooth
						46.23' - 46.28', vertical fracture, odor, weak, clay infill
						46.97' - 48.03', vertical fracture, weak; mechanical break?
						46.97' - 47.00', fracture, weak, clay infill
						48.03' - 48.60', fractured, fragments, weak, clay infill.
						*51.00' - 51.25', not in core box.

SOIL BORING / SAMPLING LOG

Boring/Well: RW-10 Project/No.: IN Creosote / IN000072.0064.00001 Page: 1 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/18/12 13:30 Drilling Date/Time Completed: 10/19/12 0:00

Drilling Contractor: Major Drilling Driller: Dave Chamblee

Drilling Fluid Used: N/A Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5" Sampling Interval: 5.0 feet

Land-Surface Elev.: feet ☐ Surveyed ☐ Estimated Water:

Total Depth Drilled: Feet Hole Diameter: 4.0 Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn Hammer Weight: Hammer Drop: ins.

Boring Termination Depth: Water: gallons GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--	0 - 0.25'	**Topsoil, organics**
2.0	4.0	100	0.0	--	0.25 - 1.00	**Fill material,** black, cinders, gravels, sands
4.0	6.0	100	0.0	--	1.00 - 4.50	**Clay and Silt,** brown, moist, soft to medium stiff, medium plasticity,
6.0	8.0	100	0.0	--	4.50 - 8.00	**Weathered Limestone,** light grey, friable, brachiopods
8.0	10.0	100	0.0	--	8.00 - 12.0	**Silt,** olive brown, dry, friable, non plastic; void/bit drop from 11.0' - 12.0'
					12.0 - 15.0	**Siltstone,** medium grey to dark grey, brachiopods, competent bedrock.
						***Set 6" diameter permanent stainless steel casing to 15.0' bgs.

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ROCK CORING / SAMPLING LOG

Boring/Well RW-10 Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 3

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 10/18/12 13:30
Drilling Date/Time Completed: 10/19/12 0:00

Drilling Contractor: Major Drilling
Driller: Dave Chamblee

Drilling Fluid Used: City Water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"
Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated
Water _____

Total Depth Drilled _____ Feet
Hole Diameter: 4.0
Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn
Hammer Weight _____
Hammer Drop _____ ins.

Boring Termination Depth _____
Water _____ gallons
GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
15.86	20.78	98.6	89.9	20	5	**15.86' - 19.16', Siltstone/Mudstone w/ Int. Packstone/Wackestone,** dark grey to greenish grey,
20.78	25.77	100	95.1	30.0	0	slightly fractured, thinly bedded w/ massive sequences, strong
25.77	31.14	100	92.8	20.0	0	16.79' - 16.94', Packstone sequence
31.14	36.12	99.6	100.0	27.0	0	17.55' - 17.95', Packstone/Wackestone sequence
36.12	41.20	100	96.2	23.0	0	17.71' - 17.82', geode, closed
41.20	46.21	100	100.0	21.0	5	17.82' - 17.95', vertical fracture, clay infill
46.21	51.15	94.9	94.90	20.0	30	**19.16' - 23.61', Siltstone,** dark grey, unfractured, strong, thinly bedded, small geodes
						23.56' - 23.57', fracture, contract
						23.61' - 25.82', Packstone/Wackstone, medium grey, massive, strong, slightly fractured, fossiliferous
						23.70' - 23.82', geode, closed
						24.81' - 24.84', fracture, along styolite
						25.40' - 25.42', fracture, rough, clay infill
						25.42' - 25.45', styolite
						25.48' - 25.51', styolite
						25.60', styolite
						25.76', styolite
						25.82' - 30.02', Siltstone/Mudstone, dark grey to greenish grey, strong, medium bedded, slightly
						fractured, some interbedded Packstone
						25.98', fracture, smooth, clay infill
						26.10' - 26.13', fracture, clay lense, greenish in color, glauconite
						26.52' - 27.28', Packstone sequence, large geodes, open and closed
						26.80' - 26.85', fracture along geode
						29.98', fracture along contact. Smooth
						30.02' - 32.15', Mudstone/Wackestone, strong, bedded, medium grey, unfractured
						32.15' - 35.68', Wackestone/Packstone, medium grey, strong, unfractured, massive, small
						geodes, fossiliferous; brachiopods
						34.86', color change to dark grey
						35.24', fracture, medium rough, contact

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-10 Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/18/12 13:30

Drilling Date/Time Completed: 10/19/12 0:00

Drilling Contractor: Major Drilling

Driller: Dave Chamblee

Drilling Fluid Used: City Water

Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"

Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated

Water _____

Total Depth Drilled _____ Feet

Hole Diameter 4.0

Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn

Hammer Weight _____

Hammer Drop _____ ins.

Boring Termination Depth _____

Water _____ gallons

GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						35.24' - 39.40', Siltstone/Mudstone, dark grey, thin to medium bedded, strong, unfractured,
						greenish tint
						37.40' - 37.55', geode layer, closed
						39.32' - 39.40', fracture, rough, clay infill, weathered rock fragments
						39.40' - 40.64', Mudstone/Wackestone, medium grey to greenish grey, slightly fractured, moderate
						strength, small geodes
						39.78', fracture, smooth
						39.82', fracture, smooth, weak
						40.64' - 46.21', Mudstone/Siltstone w/ Int. Wackestone, darl grey, thinly bedded, strong, small
						geodes, greenish color
						42.14' - 42.35', large geode, open
						45.00' - 45.23', large geode, open
						45.41' - 45.50', Wackestone sequence
						46.21' - 46.55', Grainstone/Packstone, light grey, fossiliferous, strong, slightly fractured
						46.21', fracture, smooth, clean
						46.39' - 46.51', large geode
						46.53', healed fracture
						46.55' - 56.00, Siltstone (Borden), dark greenish grey, moderately fractured, medium to strong,
						medium bedded, small geodes
						45.55' - 45.65', fracture, rough, clay infill, creosote odor, sheen on fracture face, DNAPL in return
						water
						46.95', fracture, smooth, clay infill
						47.18', fracture, smooth
						47.80' - 47.82', fracture, smooth, clay infill
						47.81' - 47.90', fracture, medium rough, clay infill
						*51.15' - 56.00' was blank drilled

SOIL BORING / SAMPLING LOG

Boring/Well: RW-11 Project/No.: IN Creosote / IN000072.0064.00001 Page: 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/17/12 14:45 Drilling Date/Time Completed: 10/20/12 0:00

Drilling Contractor: Major Drilling Driller: Dave Chamblee

Drilling Fluid Used: N/A Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5" Sampling Interval: 5.0 feet

Land-Surface Elev.: _____ feet ☐ Surveyed ☐ Estimated Water: _____

Total Depth Drilled: _____ Feet Hole Diameter: 4.0 Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn Hammer Weight: _____ Hammer Drop: _____ ins.

Boring Termination Depth: _____ Water: gallons GPS Coordinates: _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	0.0	--	0 - 0.25'	**Topsoil, organics**
2.0	4.0	100	0.0	--	0.25 - 1.50	**Fill material,** black; cinders, gravels, sands
4.0	6.0	100	0.0	--	1.50 - 8.50	**Clay w/ some Silt,** yellowish brown, moist, medium to soft, medium plasticity
6.0	8.0	100	0.0	--		3.0', stiff to very stiff, medium to low plasticity
8.0	10.0	100	0.0	--		3.5', trace sands
						4.8', gravels, weathered limestone fragments
					8.50 - 10.0	**Silt,** olive brown, dry, friable, non plastic, very stiff; weathered siltstone
					10.0 - 11.0	**Siltstone,** dark grey, weak, thinly bedded; weathered
					11.0 - 13.5	**Silt,** olive brown, slightly moist to dry, friable, very stiff
					13.5 - 15.0	**Limestone,** competent bedrock, light grey, strong, fossiliferous; brachiopods
						*Set 6" diameter permanent stainless steel casing at 15.0' bgs

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-11 Project/No. IN Creosote / IN000072.0064.00001 Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/17/12 14:45

Drilling Date/Time Completed: 10/20/12 0:00

Drilling Contractor: Major Drilling

Driller: Dave Chamblee

Drilling Fluid Used: City Water

Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"

Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated

Water _____

Total Depth Drilled _____ Feet Hole Diameter 4.0

Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn

Hammer Weight _____

Hammer Drop _____ ins.

Boring Termination Depth _____ Water _____ gallons

GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
16.51	20.64	82.6	85.9	20	10	**16.51' - 17.16', Siltstone/Mudstone,** greenish grey, thinly bedded, moderately fractured
20.64	24.14	100	94.2	29.0	0	16.51' - 16.62', weathered siltstone, clay infill, weak
24.14	25.49	90	49.6	12.0	60	17.12' - 17.16', fracture, clay infill, contact
25.49	30.49	100	80.0	26.0	85	**17.16' - 19.17', Mudstone/Wackestone,** medium grey to greenish grey, strong, unfractured, massive
30.49	35.88	100	94.0	24.0	0	17.43' - 17.47', styolite
35.88	40.83	99	73.5	25.0	60	**19.17' - 22.97', Siltstone,** dark greenish grey, slightly fractured, thinly bedded, small geodes, strong
40.83	45.62	95.8	97.70	21.0	0	19.17' - 19.30', facture, clay infill, smooth, moderate strength, contact
45.62	50.89	100	199.00	14.0	25	22.87' - 22.97', geode sequence
50.89	54.72	87.8	87.80	15.0	25	22.93' - 22.97', fracture alon contact, geode sequence, clau infill
						22.97' - 23.72', Siltstone/Mudstone, greenish grey, strong, thinly bedded, unfarctured
						23.72' - 25.33', Packstone/Grainstone, medium grey, moserate strength, moderately fractured,
						interbedded Mudstone/Siltstone, fossiliferous
						24.33' - 24.36', fracture, rough, clay infill, possible zone of water loss
						24.55' - 24.65', fracture, rough, 20° angle, clay infill, possible zone of water loss
						25.33' - 25.76', Mudstone, greenish grey, weak, thinly bedded
						25.33' - 25.34', fracture, contact, clay infill, smooth
						25.76' - 26.99', Wackestone/Packstone w/ Int. Mudstone, medium to dark grey, weak, intensely
						fractured, small geodes, medium bedded; possible zone of water loss
						26.44' - 26.49', fracture, rough clay infill, possible zone of water loss
						26.58' - 26.65', fracture, rough clay infill, possible zone of water loss
						26.74' - 26.82', fracture, rough, clay infill, possible zone of water loss
						26.99' - 29.34', Siltstone w/ Int. Packstone, grey, moderate strength, slightly fractured, large geodes
						27.01', fracture, contact, smooth, clay infill
						27.19', fracture, smooth, clean
						27.79' - 27.91', geode sequence
						27.79' - 28.41', Packstone sequence with geodes
						28.49' - 28.51', fracture, smooth
						28.65' - 28.73', geode

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-11 Project/No. IN Creosote / IN000072.0064.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 10/17/12 14:45

Drilling Date/Time Completed: 10/20/12 0:00

Drilling Contractor: Major Drilling

Driller: Dave Chamblee

Drilling Fluid Used: City Water

Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"

Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated

Water _____

Total Depth Drilled _____ Feet

Hole Diameter 4.0

Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn

Hammer Weight _____

Hammer Drop _____ ins.

Boring Termination Depth _____

Water _____ gallons

GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						29.34' - 30.52', Mudstone/Wackestone, light greenish grey, medium bedded, moderate strength
						30.53' - 32.94', Grainstone/Packstone, light grey, strong, fossiliferous, slightly fractured, medium
						bedded
						30.52' - 31.09', healed vertical fracture
						30.81' - 30.95', Mudstone sequence
						32.78' - 32.81', fracture, smooth
						32.94' - 38.78', Int. Siltstone/Mudstone/Packstone/Wackstone, dark grey to medium grey, strong,
						slightly fractured, thinly bedded, small geodes
						33.08' - 33.16', fracture, rough, clay infill
						33.40' - 34.00', Int. Mudstone/Packstone sequence
						34.60' - 34.62', Grainstone sequence
						36.22' - 36.29', Grainstone sequence
						36.29' - 36.36', small geode sequence
						38.78' - 39.30', Grainstone, medium grey, weak, moderately fractured, brachiopods
						38.84' - 38.90', fracture, rough, sheen noted, creosote odor; odor noted in return water.
						38.96' - 38.97', fracture, smooth
						39.20' - 39.28', fracture, rough, clay infill, sheen, creosote
						39.30' - 45.02', Mudstone/Siltstone w/ Int. Wackestone, medium grey to light greneish grey,
						strong, unfractured, thinly bedded, small geodes
						42.68' - 42.99', Packstone sequence
						45.02' - 45.62', Grainstone, light to medium grey, fossiliferous, brachiopods, medium strength,
						massive, slightly fractured,
						45.51' - 45.53', fracture, rough, creosote odor
						45.62', fracture, rough clay infill, sheen on fracture, creosote odor; DNAPL in return water
						45.62' - 54.72', Siltstone (Borden), dark greenish grey, moderate strength to strong, slightly
						fractured, small geodes
						47.18' - 47.20', fracture, smooth, clay infill
						48.92', fracture along geode, smooth, clay infill

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-11 Project/No. IN Creosote / IN000072.0064.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 10/17/12 14:45
Drilling Date/Time Completed: 10/20/12 0:00

Drilling Contractor: Major Drilling
Driller: Dave Chamblee

Drilling Fluid Used: City Water
Drilling Method: Mini Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.5"
Sampling Interval: 5.0 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated
Water _____

Total Depth Drilled _____ Feet
Hole Diameter: 4.0
Coring Device: 5.0' coring barrel

Prepared By: W. Kuhn
Hammer Weight _____
Hammer Drop _____ ins.

Boring Termination Depth _____
Water _____ gallons
GPS Coordinates _____

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
			--	
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						50.50' - 50.51', fracture, smooth, clay infill; DNAPL in return water
						51.87' - 51.90', fracture, smooth, clay infill
						52.42' - 52.45', fracture, smooth, clay infill,
						53.71' - 53.75', fracture, smooth, clay infill
						54.26' - 54.43', fracture along geode, clay infill, smooth

SOIL BORING / SAMPLING LOG

Boring/Well: RW-12 (PH-4) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 1007 | Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne | Driller: Jason Gerwick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.82 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 46.09 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 46.09 | Total Water Loss: 60 gallons | GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:
- South of RW-10
- North of RW-8

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth	From - To	Sample/Core Description
0.0	2.0	--	--	--		0 - 1.0'	**Fill,** trash debris, cinders, gravels, rr ties
2.0	4.0	--	--	--		1.0'-3.0'	**Clayey Silt,** brown, (2.5Y 5/4), soft, plastic, slightly moist
4.0	6.0	--	--	--		3.0'-3.5'	**Weathered Bedrock Fragments and Clay,** friable, dry
6.0	8.0	--	--	--		3.5'-8.0'	**Clay, with gravels,** brown, (2.5Y 6/6), hard, dry, non-plastic, bedrock fragments
8.0	10.0	--	--	--		8.0'-9.5'	**Weathered Siltstone,** light greenish grey, (10YR 6/2), silts, bedrock fragments, dry, friable
						9.5'-10.0'	**Bedrock,**

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-12 (PH-4) Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 1007

Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne

Driller: Jason Gerwick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.82 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 46.09 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 46.09

Total Water Loss: 60 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

- South of RW-10
- North of RW-8

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
11.69	15.76	100	96.3	33.0	25	**11.69'-12.15', Wackestone/Grainstone,** light grey, massive, strong, competant, unfractured
15.76	21.00	100	90.1	34.0	0	**12.15'-12.48', Grainstone with interbedded Mudstones,** massive to layered, moderate strength, fractured
21.00	25.86	97.2	93.8	34.0	0	-12.15'-12.22', heavily fractured, weak, clay infill, possible zone of water loss
25.86	30.95	100	100.0	28.0	25	**12.48'-15.76', Interbedded Wackestone/Mudstone,** medium blue to greenish grey, massive, layered, strong, competant, slightly fractured, crinoids
30.95	36.09	100	100.0	20.0	10	-12.70'-13.53', healed vertical fracture
36.09	41.09	100	92.0	23.0	0	-13.00'-13.03', fracture, clay infill, oxidized, possible zone of water loss
41.09	46.09	100	--	26.0	0	-13.46'-13.53', fracture zone
						-15.40'-15.70', fracture, 50 degrees, glauconite, clay infill
						-15.68'-15.70', fracture, clay infill
						15.76'-16.70', Packstone, medium bluish grey, massive, strong, competant, crinoids, brachiopods, unfractured
						-16.57'-16.70', geode
						16.70'-18.49', Mudstone, light grey, bedded, strong, competant, slightly fractured
						-17.34'-17.36', fracture, clean
						-18.20'-18.40', large geode
						-18.38'-18.41', fracture, along geode
						-18.38'-18.49', heavy fracturing
						18.49'-21.84', Siltstone, dark grey, thinly bedded, strong, moderate stregth, compeant, heavy to slight fractures
						-18.49'-19.27', Heavily fractured
						-21.68'-21.83', large geode
						21.84'-24.92', Packstone with some interbedded Mudstone/Grainstone layers, massive to layered, strong, competant, slightly fractured
						-23.19'-23.20', fracture, clean
						-24.81'-24.92', fracture zone, clay infill
						24.92'-28.65', Siltstone, dark grey to dark greenish grey, thinly bedded, strong, competant, slightly fractured
						-24.92-25.09', weathered siltstone, dark greenish grey, glauconite, pitted, weak
						-25.69'-25.70', fracture, along geode, clay infill

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-12 (PH-4) | Project/No.: IN Creosote / IN000072.0070.00001 | Page: 3 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 1007

Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne

Driller: Jason Gerwick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.82 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 46.09 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 46.09

Total Water Loss: 60 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:
- South of RW-10
- North of RW-8

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-28.60'-28.65', mudstone sequence
						28.65'-32.38', Interbedded Mudstone/Packstone, greenish grey to medium grey, massive to layered, strong, competant, unfractured
						32.38'-37.65', Mudstone with some Interbedded Wackestone, bedded, strong, competant, unfractured, geodes
						-32.63'-32.82', large geode
						-33.64'-33.82', large geode
						-33.82'-33.84', fracture, along geode
						37.65'-37.92', Packstone, bluish grey, massive , strong, competant, slightly fractured
						-37.86'-37.87', fracture, clean
						-37.89'-37.91', fracture, clay infill, possible source of odor and sheen, glauconite
						37.92'-38.20', Wackestone with interbedded weathered Siltstone, massive, layered, strong, competant, unfractured
						-37.92'-37.95', weathered siltstone, glauconite
						-37.98'-38.03', weathered siltstone, glauconite
						-38.19'-38.26', fracture, contact, possible zone of odor/sheen, clay infill
						38.26'-44.45', Mudstone, greenish grey to medium grey, bedded, strong, competant, unfractured
						44.45'-44.82', Grainstone, medium bluish grey, massive, strong, competant, unfractured
						-44.82', fracture, contact, odor, sheen, DNAPL staining
						44.82'-46.09', Siltstone (Borden), dark grey, thinly bedded, strong, competant, slightly fractured
						-44.82'-45.00', fracture zone, weak, weathered, odor, sheen, DNAPL staining.

SOIL BORING / SAMPLING LOG

Boring/Well RW-13 (PH-6) Project/No. IN Creosote / IN000072.0070.00001 Page 1 of 3

Site Location Bloomington, Indiana | Drilling Date/Time Started 5/7/13 @ 0743 | Drilling Date/Time Completed 5/7/13 @ 1713

Drilling Contractor Layne | Driller Jason Gerwick/Tom Devick

Drilling Fluid Used N/A | Drilling Method Sonic

Length and Diameter of Coring Device 5.0' core barrel / 4.0" | Sampling Interval 5.0 feet

Land-Surface Elev. 686.52 feet [X] Surveyed [ ] Estimated | Water N/A

Total Depth Drilled 50.88 Feet | Hole Diameter 4.0 in. | Coring Device 5.0' sonic coring barrel

Prepared By R. Woodruff | Hammer Weight N/A | Hammer Drop N/A ins.

Boring Termination Depth 50.88 | Total Water Loss 320 gallons | GPS Coordinates N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:
- South of RW-9

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS	Description/Depth From - To	Sample/Core Description
0.0	2.0	100	--	--		0 - 2.0'	**Fill Material,** black cinders, clay, gravels, organics
2.0	4.0	100	--	--		2.0'-6.5'	**Silty Clay,** brown (10YR 4/4) with light grey and rust mottling, oxidation, plastic, slightly moist
4.0	6.0	100	--	--			-5.75' gravels
6.0	8.0	100	--	--		6.5'-11.0'	**Bedrock Limestone,** crinoids, braciopods, fenestrate bryozoan
8.0	9.0	100	--	--			-set 6" diameter temporary casing at 11 feet

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-13 (PH-6) Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/7/13 @ 0743

Drilling Date/Time Completed: 5/7/13 @ 1713

Drilling Contractor: Layne

Driller: Jason Gerwick/Jason Devick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.52 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 50.88 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 50.88

Total Water Loss: 320 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.92	16.00	100	82.1	57	15	**10.92'-12.24', Mudstone/Siltstone,** light greenish grey to dark grey, thinly bedded, moderately fractured, strong, competant
16.00	20.94	98.8	91.7	23.0	75	-11.11'-11.24', heavily fractured, clay infill
20.94	25.89	99.0	94.3	76.0	0	-11.95'-11.96', fracture, BP
25.89	31.00	100	89.6	30.0	70	-12.16'-12.18', fracture, BP
31.00	35.98	99.6	100.0	28.0	20	-12.23'-12.24', fracture, contact
35.98	40.92	98.8	88.1	33.0	0	**12.24'-13.90', Packstone,** light grey to light bluish grey, massive, strong, competant, slightly fractured
40.92	45.83	98.2	95.90	39.0	70	-12.85'-12.88', fracture, clean, partially healed
45.83	50.88	--	--	24.0	70	-13.75'-13.90', styolite
						-13.88'-13.90', fracture, contact, clay infill
						13.90'-14.45', Mudstone, greenish grey to medium grey thinly bedded, strong, competant, unfractured
						14.45'-19.10', Wackestone/Mudstone, light greenish grey, massive, strong, competant, moderately fractured
						-15.26'-15.30', fracture, along styolite, clay infill
						-15.45'-15.47', fracture, clay infill
						-15.89', fracture, clean
						-16.00', fracture, clay infill
						-16.11'-16.12', fracture clean
						-18.07'-18.14', styolite
						-18.07'-18.11', fracture, along styolite, partly healed clay infill
						-19.08'-19.10', fracture, contact
						19.10'-22.23', Siltstone, dark grey to dark greenish grey, thinly bedded, strong, competant, slightly fractured
						-19.24'-19.39', clay infill, siltstone fragments
						-20.94'-21.22', heavily fractured
						22.23'-29.98', Packstone/Grainstone, light bluish grey to light greenish grey, massive to layered, strong, competant, slightly fractured, glauconite
						-22.23'-22.44', geode sequence

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-13 (PH-6) Project/No.: IN Creosote / IN000072.0070.00001 Page: 3 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/7/13 @ 0743

Drilling Date/Time Completed: 5/7/13 @ 1713

Drilling Contractor: Layne

Driller: Jason Gerwick/Jason Devick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.52 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 50.88 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 50.88

Total Water Loss: 320 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-23.18'-23.19', fracture, clean
						-23.57'-23.58', fracture, along styolite, clay infill, partly healed
						-23.38'-23.42', styolite
						25.98'-29.55', Siltstone, dark greenish grey to dark grey, thinly bedded, strong, competant, slighly fractured
						-25.98'-26.41', weak, heavy fracturing, clay infill
						-26.75'-26.87', geode
						29.55'-31.00', Packstone/Grainstone, light grey to light bluish grey, massive, strong, competant, unfractured, styolites
						31.00'-46.83', Mudstone with interbedded Packstones/Grainstones, greenish grey to bluish grey, thinly bedded to massive with layers, stong, competant, slightly fractured
						-33.43-33.46', fracture, clean, contact
						-32.05'-32.45', packstone/grainstone sequence
						-32.82'-33.47', packstone/grainstone sequence
						-34.29'-34.60', packstone/grainstone sequence
						-38.97'-39.05', packstone sequence
						-39.08'-39.17', fracture, along styolite, clay infill, possible zone of water loss, DNAPL in return water, and odor
						-39.31'-39.34', fracture, clean
						-39.51'-39.66', packstone sequence
						-46.52-46.65', grainstone sequence
						46.83'-50.88', Siltstone (Borden), dark grey, thinly bedded, cross-bedded, strong, competant, glauconite at contact, unfractured

SOIL BORING / SAMPLING LOG

Boring/Well: RW-14 (PH-5) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/6/13 @ 0835 | Drilling Date/Time Completed: 5/6/13 @ 1547

Drilling Contractor: Layne | Driller: Jason Gerwick/Tom Devick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.15 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 45.84 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 45.84 | Total Water Loss: 665 gallons | GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:
- South of MW-34A
- North of RW-9

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth	From - To	Sample/Core Description
0.0	2.0	75	--	--		0 - 4.5'	**Fill Material,** black, cinders with clay and gravels, slightly moist, non-plastic
2.0	4.0	75	--	--		4.5'-5.0'	**Bedrock Fragments,** weathered
4.0	6.0	75	--	--		5.0'-7.25'	**Silty Clay,** brown (10YR 4/4), moist, non plastic, large bedrock fragments begin at 6', increase silt content with depth
6.0	8.0	75	--	--		7.25-7.75	**Bedrock Fragments,** weathered, silt
8.0	10.0	75	--	--		7.75'-9.0'	**Silt,** light brown, (2.5Y 6/4), dry, non-plastic, friable
10.0	11.0	75	--	--		9.0'-11.0'	**Bedrock, siltstone,**
							-set 6" diameter casing at 11.0 feet

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-14 (PH-5) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 2 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/6/13 @ 0835

Drilling Date/Time Completed: 5/6/13 @ 1547

Drilling Contractor: Layne

Driller: Jason Gerwick/Tom Devick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.15 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 45.84 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 45.84

Total Water Loss: 665 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
11.67	16.00	100	90.3	42.0	90	**11.67'-12.20', Siltstone,** dark greenish grey, thinly bedded, strong, competant, unfractured
16.00	21.08	100	98.0	35.0	30	**12.20'-12.97', Wackestone,** medium grey, massive, strong, competant, unfractured
21.08	25.65	91.4	88.2	44.0	230	-12.75-12.95', Geode
25.65	30.94	100	100.0	24.0	55	-12.90'-12.97', fracture, along geode, partly healed
30.94	35.89	99.0	100.0	22.0	65	**12.97'-14.20', Packstone/Grainstone,** light grey, massive, strong, competant, moderate fractures, crinoids, brachiopods, finnestrate bryozoa
35.89	40.89	100	95.0	23.0	95	-13.25'-13.75', fracture, 45 degrees, clean
40.89	45.84	99.0	97.00	22.0	100	-13.72'-13.74', styolite
						14.20'-14.54', Mudstone/Wackestone, bluish grey, massive, strong, competant, slightly fractured
						-14.25'-14.45', large geode, open
						-14.20'-14.22', healed fracture, contact
						-14.24'-14.31', healed fracture
						-14.53'-14.54', healed fracture, contact
						14.54'-14.83', Packstone with interbeded Mudstone, light greenish grey, massive, strong, competant, slightly fractured
						-14.60'-14.63', fracture, clay infill
						14.83'-17.12', Interbedded Mudstone/Wackestone, dark grey to medium bluish grey, massive to bedded, strong, competant, slightly fractured
						-14.99'-15.02', fracture, clean
						-15.74'-15.75', fracture, contact clean
						-17.01'-17.12', weak, weatherd mudstone, heavily fractured
						17.12'-21.71', Siltstone, dark grey, thinly bedded, cross-bedded, strong, competant, slightly fractured, geodes
						21.71'-24.56', Packstone/Grainstone, bluish grey to light greenish grey, massive, strong, competant, slightly fractured, glauconite, crinoids, brachiopods
						-21.92'-21.95', fracture, clean
						-22.84'-23.10', mudstone sequence
						-23.79'-23.81', fracture, clean

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-14 (PH-5) Project/No.: IN Creosote / IN000072.0070.00001 Page: 3 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/6/13 @ 0835

Drilling Date/Time Completed: 5/6/13 @ 1547

Drilling Contractor: Layne

Driller: Jason Gerwick/Tom Devick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 686.15 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 45.84 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 45.84

Total Water Loss: 665 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-24.02'-24.18', fracture, angular, fracture zone, possible zone of water loss
						-24.31'-24.50', styolite sequence
						-24.53'-24.56', fracture, contact, clay infill, possible zone of water loss
						24.56'-27.89', Siltstone, dark greenish grey to dark grey, thinly bedded, weak to strong, competant
						-24.56'-24.72', weathered siltstone, dark greenish grey, weak pitted
						-24.72'-24.96', pitted core
						-27.89', fracture, contact
						27.89'-32.73', Interbedded Mudstone/Wackestone/Packstone, light grey to medium greenish grey, massive to layered, strong, compentant, unfractured
						32.73'-44.40', Interbedded Siltstone/Mudstone, grey to dark greenish grey, thinly bedded to layered, strong, competant, unfractured
						-36.60'-37.27', wackestone sequence
						-37.17'-37.27', fracture, contact, clay infill, glauconite, possible zone of water loss
						-37.36'-37.40', fracture, clay infill, glauconite, possible zone of water loss
						-37.60'-37.61', fracture, clean, glauconite,
						-44.35'-44.40', fracture, weak, odor/DNAPL in return water
						44.40'-45.84', Siltstone (Borden), thinly bedded, cross-bedded, strong, competant, slightly fractured
						-44.40'-44.49', fracture, weak, odor/DNAPL in return water
						-44.74'-45.25', crinoid sequence

SOIL BORING / SAMPLING LOG

Boring/Well: RW-15 (PH-2) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/1/13 @ 1215 | Drilling Date/Time Completed: 5/2/13 @ 1144

Drilling Contractor: Layne | Driller: Jason Gerwick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.2 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 45.40 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 45.40 | Total Water Loss: 125 gallons | GPS Coordinates: --

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

South of MW-26A

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	--	--		0 - 0.25'	**Topsoil, Organics, Cinders**
2.0	4.0	100	--	--		0.25 - 1.5'	**Silty Clay,** brown (10YR 3/4), soft, moist, plastic, cinders, organics, gravels
4.0	6.0	100	--	--		1.5'-4.5'	**Silty Clay, Brown with light brown and grey mottling** (10YR 4/3), firm, slighly plastic, trace gravels and cinders, decrease gravels and cinders with depth, increase hardness, dry
6.0	8.0	100	--	--		4.5'-6.0'	**Silty Clay with Gravels,** brown (10YR 3/4), firm, slightly moist, increase gravels with depth
8.0	10.0	100	--	--		6.0'-8.0'	**Silt (weatherd bedrock),** light brown (5Y 7/1), dry friable, geodes
10.0	11.0	100				8.0'-9.0'	**Weathered Bedrock,** grey, fragments, clay, soft
						9.0'-11.0'	**Competant Bedrock,** advance 6" diameter temporary casing down to 11.0'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-15 (PH-2) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/1/13 @ 1215 | Drilling Date/Time Completed: 5/2/13 @ 1144

Drilling Contractor: Layne | Driller: Jason Gerwick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 2.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.2 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 45.40 Feet | Hole Diameter: 4.0 in. | Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 45.40 | Total Water Loss: 125 gallons | GPS Coordinates: --

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
11.08	13.40	100	68.5	32	15	**11.08'-14.02', Packstone/Wackestone,** medium grey, massive, strong, competant, moderate fractures
13.40	15.45	100	67.3	10.0	0	-11.22'-11.27', fracture, clay infill
15.45	20.43	99.6	100.0	29.0	15	-11.51'-11.55', fracture, clay infill
20.43	25.41	99.6	91.1	29.0	0	-11.68'-11.70', fracture, slight clay infill
25.41	30.28	97.4	97.9	28.0	30	-12.08', styolite
30.28	35.38	100	100.0	25.0	0	-12.47'-12.51', fracture, clay and gravel infill, weak
35.38	40.61	100	94.00	38.0	65	-12.66'-12.69', styolites
40.61	45.40	99.8	100.00	24.0	0	-12.98'-13.02', fracture, along styolite
						-13.04'-13.22', styolite sequence
						14.02'-14.86', Interbedded Mudstone/Wackestone/Packestone, dark grey to light greenish grey, bedded sequences (thin to massive), strong, competant, moderately fractured
						-13.84', fracture, clean
						-14.11', fracture, clean, contact
						-14.19'-14.20', fracture, clean, contact
						-14.60'-14.61', fracture, clean, contact
						-14.84'-14.86', fracture, clean, contact
						14.86'-15.74', Wackestone, medium to dark grey, massive bedded, strong, competant
						15.74'-16.08', Packstone, medium bluish grey, massive strong, competant, unfractured
						16.08'-16.17', Mudstone, light greenish grey, bedded, strong, competant, unfractured
						-16.16'-16.17', fracture, contact
						16.17'-17.21', Mudstone/Wackestone, medium grey, bedded, banding, strong, competant, unfractured, geodes
						-17.15', fracture, along geode
						-17.21'-17.43', large geode
						17.21'-21.50', Siltstone, dark grey, thinnly bedded, strong, competant, slightly fractured, geodes
						-18.25'-18.26', fracture, clean
						-18.87'-18.96', geode sequence
						-19.65'-19.74', geode, open

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-15 (PH-2) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/1/13 @ 1215 | Drilling Date/Time Completed: 5/2/13 @ 1144

Drilling Contractor: Layne | Driller: Jason Gerwick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 2.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.2 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 45.40 Feet | Hole Diameter: 4.0 in. | Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 45.40 | Total Water Loss: 125 gallons | GPS Coordinates: --

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						21.50'-21.75', Mudstone/Wackestone, light to medium grey, bedded, strong, competant, unfractured
						-21.75'-21.77', fracture, contact, partly weathered
						21.75'-22.62', Packstone, light bluish grey, massive, strong, competant, slightly fractured, crinoids
						-21.78'-21.82', fracture, along styolite, clay infill
						-22.28'-22.62', crinoid sequence
						22.62'-23.10', Mudstone, greensih grey, banding at 30 degrees, bedded, strong, competant, unfractured
						23.10'-23.44', Packstone/Grainstone, light grey to light greenish grey, massive, strong, competant, unfractured
						-23.41'-23.44', fracture, contact, clay infill
						23.44'-23.83', Siltstone, dark greenish grey, thinnly bedded, moderate strength, competant, slightly fractured, glauconite
						-23.72'-23.74', gracture, clay infill
						23.88'-26.08', Grainstone/Packstone, light grey, massive, strong, competant, styolites, unfractured
						-24.74'-25.36', styolite sequence
						-26.06'-26.08', fracture, contact
						26.08'-27.00', Interbedded Mudstone/Wackestone, dark grey, bedded, strong, competant, unfractured
						-26.95'-27.00', fracture, contact, odor, clay infill
						27.00'-27.10', Weathered Siltstone, dark grey, thinnly bedded, moderate to weak strength, slighlty fractured, odor
						-27.07'-27.08', fracture, clay infill, odor
						27.10'-32.80', Interbedded Grainstone/Wackestone/Packstone, light grey to light greenish grey, massive with bedding, strong, competant, moderately fractured, odor in return water
						-27.10'-30.01', vertical fracture, DNAPL in fracture from 28.00' to 29.40', mainly concentrated at
						28.35', odor, sheen
						-29.91'-29.92', fracture, clean
						32.80'-37.15', Mudstone/Siltstone with trace Wackestones, dark grey to dark greenish grey, thinnly bedded to bedded, strong, competant, slightly fractured, odor and DNAPL in return water
						-34.58'-34.61', fracture, slight clay infill

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-15 (PH-2) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 4 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/1/13 @ 1215 | Drilling Date/Time Completed: 5/2/13 @ 1144

Drilling Contractor: Layne | Driller: Jason Gerwick

Drilling Fluid Used: Water | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 2.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.2 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 45.40 Feet | Hole Diameter: 4.0 in. | Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 45.40 | Total Water Loss: 125 gallons | GPS Coordinates: --

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-34.71'-36.17', vertical fracture, DNAPL in fracture, odor, sheen, mainly concentrated at 35.00'
						-35.38'-35.60', heavy fracturing
						-36.98'-37.00', fracture, contact, clay infill
						-37.05'-37.10', clay interval, glouconite
						37.15'-38.09', Wackestone, light greenish grey, glauconite, massive, strong, competant, slightly fractured
						-37.61', fracture, clean
						-37.86'-37.90', healed fracture, styolite, glaconite filled
						-37.08'-37.09', fracture, contact, clay infill
						38.09'-42.17', Mudstone, greenish grey, bedded, strong, competant, unfractured
						42.17'-44.22', Interbedded Mudstone/Wackestone/Packstone, light grey to dark grey, massive with bedding, strong, competant, unfractured, trace crinoids
						-44.22', fracture, contact, partly healed
						44.22'-45.40', Siltstone (Borden), dark grey, thinnly bedded, cross-bedding, strong, competant, unfractured

SOIL BORING / SAMPLING LOG

Boring/Well: RW-16 (PH-8) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/9/13 8:45 | Drilling Date/Time Completed: 5/10/13 14:48

Drilling Contractor: Layne Christensen | Driller: Tom Devick

Drilling Fluid Used: Water | Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing | Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.47 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 41.15 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 41.15' | Tot. Water Loss: 315 gallons | GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth From - To		Sample/Core Description
0.0	2.0	100	--	--		0.0'-0.8'	**Silt, some clay,** medium plasticity, trace to little sand, fine to medium grained, moist, dark brown, topsoil, organics
2.0	4.0	100	--	--		0.8'-5.5'	**Clay and Silt,** high plasticity, no dilatency, trace to little sand, very fine to fine, trace granules, moist, very soft, dark yellowish brown, with greyish brown mottling
4.0	6.0	100	--	--		5.5'-10.0'	**Limestone, Packstone,** light greyish blue, mechanically broken, fossiliferous
6.0	7.5	100	--	--			

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-16 (PH-8) Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/9/13 8:45

Drilling Date/Time Completed: 5/10/13 14:48

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" tempora casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.47 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.15 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.15'

Tot. Water Loss: 315 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.00	14.93	98	77.0	38	175	**10.00'-10.76', Packstone,** strong, light grey to medium grey, fossiliferous, mechanically fractured
14.93	16.00	100	100.0	9.0	0	**10.76'-14.22', Siltstone/Mudstone,** strong, dark grey, lamminated, intensly fractured, geodes
16.00	21.00	100	91.6	31.0	140	-10.92', fracture
21.00	22.90	100	50.0	4.0	0	-11.43', fracture
22.90	26.00	100	100.0	27.0	0	-11.62', fracture
26.00	31.00	100	98.0	26.0	0	-11.81', fracture
31.00	36.15	100	100.0	45.0	0	-11.95', fracture along geode
36.15	41.15	100	84.0	64.0	0	-11.83'-11.93', geode
						-11.93'-11.95', geode
						-12.16', fracture along geode
						-12.16'-12.23', geode
						-12.32'-12.50', fracture, partly healed, rock fragments and clay infilling, dark grey, damp
						-12.55'-12.80', geode
						-12.80', fracture along geode
						-12.85'-12.89', geode
						-13.13'-13.33', fracture, partly healed rock fragments, soft clay infilling, damp
						-13.73', fracture
						-14.17'-14.22', fracture, bedding plane, moderately narrow, slight clay infilling, damp
						14.22'-14.30', Grainstone, strong, medium greyish blue, fossiliferous
						-14.30', fracture, bedding plane, narrow
						14.30'-15.60', Wackestone, strong, medium greyish blue, thinly bedded, competent,
						-15.51', fracture
						15.60'-16.42', Grainstone, strong, light grey, fossiliferous, crinoids, styolites
						-16.08'-16.13', wackestone layer
						-16.18', fracture, rough, dry
						-16.26', styolite
						-16.42', styolite
						16.42'-17.43', Packstone, strong, light grey, fossiliferous

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-16 (PH-8) Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/9/13 8:45

Drilling Date/Time Completed: 5/10/13 14:48

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" tempora casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.47 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.15 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.15'

Tot. Water Loss: 315 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-17.16', styolite
						17.43'-18.78', Wackestone, strong, medium greyish blue, thinly bedded, competent
						-18.00'-18.09', grainstone
						-18.50'-18.78', interbedded grainstone
						18.78'-19.55', Siltstone/Mudstone, strong, dark grey, laminated, fractured
						-18.78', fracture, bedding plane, rough, slight clay infill, damp, slight creosote odor
						-19.14', fractures, rough, slight clay infill, slight creosote odor
						-19.23', fractures, rough, slight clay infill, slight creosote odor
						-19.40', fractures, rough, slight clay infill, slight creosote odor
						19.55'-20.81', Packstone, strong, light grey, fossiliferous, fractured, creosote
						-19.60', styolite
						-19.81', styolite
						-20.32'-20.36', fracture, partly healed, clay infilling, dark grey, wet with minor seepage, odor, creosote
						-20.56', styolite
						-20.78'-20.81', fracture along styolite, rough, wet with minor seepage, odor, creasote present
						rundown from 20.32' fracture, advance 6" casing to 21' bgs
						20.81'-25.70', Wackestone, strong, medium greyish blue, thinly bedded, with mudstone/siltstone, competant, mechanically fractured
						-22.65'-22.94', grainstone sequence
						-24.08'-24.12', geode
						-24.73'-24.82', geode
						25.70'-29.85', Mudstone/Siltstone, strong, dark grey, laminated, nearly unfractured, interbedded Wackestone
						-26.85'-26.95', geode
						-29.80', fracture, narrow, rough, dry
						29.85'-35.65', Packstone/Wackestone, strong, light to medium greyish blue, interbedded, fossiliferous
						-29.85'-29.90', fracture, narrow, partly healed, clay infill, greyish blue, glauconite, damp
						-29.85'-30.87', packstone sequence, light grey

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well RW-16 (PH-8) Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 5/9/13 8:45
Drilling Date/Time Completed: 5/10/13 14:48

Drilling Contractor: Layne Christensen
Driller: Tom Devick

Drilling Fluid Used: Water
Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporar casing
Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.47 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 41.15 Feet
Hole Diameter: 4.0 in.
Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 41.15'
Tot. Water Loss: 315 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-30.50', styolite
						-30.87'-31.40', wackestone sequence, medium greyish blue
						-31.40'-32.05', packstone
						-31.55', fracture along styolite, dry
						-32.05'-33.75', wackestone, with mudstone/siltstone interbedded
						-32.50', fracture
						-33.42', fracture
						-33.75'-35.65', packstone sequence with interbedded wackestone/mudstone/siltstone, fossiliferous, crinoids
						-33.95', fracture along styolite
						-34.78', fracture, rough, dry
						-34.95'-35.20', siltstone layer
						-35.65', fracture, bedding plane, along styolite, dry
						33.65'-36.00', Siltstone/Mudstone, strong, light grey, laminated
						36.00'-37.60', Packstone, medium bluish grey, strong, moderately fractured.
						-37.18', fracture, slight clay infil, grey
						-37.31', healed fracture
						-37.40', fracture
						-37.45', fracture
						-37.60', BP fracture, pyrite, fossiliferous
						37.60'-41.15', Siltstone, strong, dark grey, laminated, competent, mechanically fractured
						-37.60'-37.67', dark greyish blue
						-37.67', fracture
						41.15' End of Boring

SOIL BORING / SAMPLING LOG

Boring/Well: RW-18 (PH-10) | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/14/13 @ 1000 | Drilling Date/Time Completed: 5/15/13 @ 1215

Drilling Contractor: Layne Christensen | Driller: Tom Devick

Drilling Fluid Used: Water | Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" tempora casing | Sampling Interval: 5.0 feet

Land-Surface Elev.: 685.48 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 40.87 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey/Matt Griles | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 40.87 | Tot. Water Loss: 110 - 360 gallons (see note on page 2.) | GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Near MW-54 Series

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	100	--	--		0.0'-0.25'	**Topsoil,** organic detritus, leaf litter, roots, grass
2.0	4.0	100	--	--		0.25'-5.25'	**Clay,** medium brown, high plasticity, moist, soft, oxidation, mottling
4.0	6.0	100	--	--		5.25'-6.75'	**Weathered Bedrock,** light brown, gravel stiff with clayey cement, dry, hard and powdered
6.0	8.0	100	--	--		6.75'-17.25'	**Clay and Bedrock fragments,** light grey to dark grey, plastic, moist, *begin to use water with sonic core to 10' bgs, *Varable amounts of limey mud and weathered clays with bedrock
8.0	10.0	100	--	--		17.25'-19.0'	**Limestone,** competant, light grey, strong,
10.0	12.0	100					-18.30'-18.5', mudstone with dark grey crinoid fragment clasts
12.0	14.0	100					-advance temporary casing to 19'bgs
14.0	16.0	100					
16.0	17.25	100					

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-18 (PH-10) | Project/No.: IN Creosote / IN000072.0070.00001 | Page: 2 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/14/13 @ 1000

Drilling Date/Time Completed: 5/15/13 @ 1215

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporar casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 685.48 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.87 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.87

Tot. Water Loss: 110 - 360 gallons (see note on page 2.)

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Near MW-54 Series

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
19.55	21.00	100	67.5	30.0	*150	**19.55'-19.70', Packstone,** strong, light grey, fossiliferous
21.00	26.00	99.8	89.5	41.0	*100	-19.65'-19.70', BP fracture, partly healed, clay infill with little medium to coarse sand, grey, damp
26.00	31.00	100	100.0	30.0	35	**19.70'-21.40', Siltstone/Mudstone,** strong, dark grey, laminated, moderately fractured
31.00	36.00	100	96.0	40.0	0	-20.04', fracture, narrow, partly healed, clay infill, dark grey with little medium to coarse sand, damp
36.00	40.87	100	100.0	32.0	75	-20.90'-21.00', fracture, partly healed, clay infill with little medium to coarse sand, dark grey, damp, slight creosote odor
						-21.0'-21.1', grainstone layer
		* Water loss is due to bad seal between catch pan and temporary casing. Casing is vibrating the benseal seal loose and water is running the the ole on the outside o of the casing				-21.1'-21.18', fracture, partly healed, clay infill, dark grey, damp, broken rock fragments, possibly some mechinacal fracturing
						-21.30-21.34', fracture, partly healed, clay infill, dark grey, damp
						-21.39', fracture, bedding plane, along styolite, dry
						21.40'-25.68', Packstone, strong, light grey, moderately fractured, fossiliferous, crinoids, styolites
						-22.25', fracture along styolite, dry
						-22.80', fracture along styolite, dry
						-22.80'-22.90', fractured rock (missing length of run)
						-22.90', fracture along styolite, dry
						-25.37'-25.68', geode
						-25.68', BP fracture, rough, dry
						25.68'-27.70', Wackestone, strong, medium grey, interbedded, grainstone, geodes
						-26.47'-26.49', grainstone layer
						-27.0'-27.08', grainstone layer
						-27.21'-27.32', geode
						-27.43'-27.45', geode
						-27.53'-27.60', geode layer
						-27.61'-27.70', grainstone
						-27.70', BP fracture, smooth to rough
						27.70'-31.56', Grainstone, strong, grey, fossiliferous
						31.62'-34.05', Wackestone/Packstone, medium to light grey, strong, interbedded with siltstone/mudstone

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: RW-18 (PH-10) | Project/No.: IN Creosote / IN000072.0070.00001 | Page: 3 of 3

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/14/13 @ 1000

Drilling Date/Time Completed: 5/15/13 @ 1215

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporar casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 685.48 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.87 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.87

Tot. Water Loss: 110 - 360 gallons (see note on page 2.)

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Near MW-54 Series

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-31.62'-32.80', wackestone with interbedded siltstone
						-32.75'-32.76', fracture, undulating, rough, damp, slight creosote odor
						-32.78'-32.80', fracture, bedding plane, rough, damp
						-32.80'-33.32', packstone sequence
						-33.32'-34.05', wackestone sequence
						34.05'-38.95', Siltstone/Mudstone, strong, medium grey, laminated, geodes (small) noted, interbedded Packstone, unfractured
						-38.05'-38.10', geode layer
						-38.10', dark grey
						-38.2'-38.34', crinoids, deposited
						38.95'-39.85', Grainstone/Packstone, strong, grey, fossiliferous
						-39.73'-39.85', glauconite, greenish/greyish/blue, pyrite
						39.85'-40.87', Siltstone (Borden), strong, very dark grey, competent, cross-bedding
						40.87'- End of Boring

SOIL BORING / SAMPLING LOG

Boring/Well: PH-7 | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 0904

Drilling Date/Time Completed: 5/3/13 @ 1718

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" tempora casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.9 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.0 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.0 feet

Total Water Loss: 125 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth From - To		Sample/Core Description
0.0	2.0	100	--	--		0 - 0.9'	**Silt, some clay,** medium plasticity, no dilatency, trace to little sand, medium to coarse grained, sub-angular, moist, soft, very dark brown, organics, topsoil
2.0	4.0	100	--	--		0.9'-6.0'	**Clay and Silt,** high plasticity, no dilatency, trace to little sand, very fine to fine grained, trace very coarse sand to medium pebbles, moist, very soft, yellowish brown, mottled grey
4.0	6.0	100	--	--		6.0'-7.5'	**Limestone,** medium to ligh grey, fossiliferous, crinoids, broken fragments due to coring, slightly weathered
6.0	7.5	100	--	--			-will ream hole to 6.25" core barrel and set temporary casing at 9' bgs, overdrilled to 10' bgs.

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well: PH-7 | Project/No.: IN Creosote / IN000072.0070.00001 | Page: 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 0904

Drilling Date/Time Completed: 5/3/13 @ 1718

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporar casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.9 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.0 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.0 feet

Total Water Loss: 125 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
7.50	9.00	100	Reaming	of Hole	--	**7.5'-9.0', Limestone,** very light grey, fossiliferous, heavily fractured due to drilling process/reaming of hole to 9.0' to set temporary casing
9.00	10.00	0	Lost	--	--	**9.0'-10.0', No Recovery,** due to overdrilling of temporary casing to begin rock coring
10.00	15.18	100	74.5	52.0	75	**10.0-11.12', Packstone,** fractured, slight weathering, fossiliferous, crinoids
15.18	16.00	100	57.1	8.0	0	-10.33', fracture, slight clay infilling, light brown
16.00	21.00	100	78.0	37.0	0	-10.72' fracture, sligh clay infilling, light brown
21.00	26.25	100	93.9	51.0	25	-11.12', fracture, bedding plane, clay infilling, light brown
26.25	31.20	100	94.90	36.0	25	**11.12'-11.53', Wackestone,** medium greyish blue, strong, competant
31.20	36.00	100	98.60	41.0	0	**11.58'-16.25', Siltstone/Mudstone,** dark grey, laminated, moderately fractured
36.00	41.00	100	100.00	28.0	0	-11.75'-11.80', fracture
						-12.25', fracture along geode
						-12.25'-12.35', geode
						-12.45' fracture
						-12.53', fracture
						-12.84'-12.88', fracture, clay infilling, dark grey, damp
						-12.96'-13.12' geode
						-13.12', fracture along geode
						-13.24'-13.33', geode
						-13.33', fracture along geode
						-13.65', fracture along geode
						-13.65'-13.80', geode
						-13.80'-13.86', fracture, narrow, partly healed, clay infilling, dark grey, damp,
						-14.2', fracture
						-14.5', fracture
						-15.42', fracture, sligh clay infilling, dark grey
						-15.90', fracture
						16.25'-23.89', Grainstone/Wackestone, light greyish blue, strong, slightly fractured
						-16.25'-17.15', grainstone sequence, fossiliferous, crinoids, trace mineralization, oxidation staining

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-7 Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/3/13 @ 0904

Drilling Date/Time Completed: 5/3/13 @ 1718

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporar casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.9 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.0 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.0 feet

Total Water Loss: 125 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-16.25', BP fracture
						-16.42', fracture
						-16.52', fracture
						-17.15'-22.30', wackestone sequence, strong, competent, laminated
						-17.42'-17.44', healed fracture
						-17.70', BP Fracture
						-17.70'-17.83', packstone layer
						-17.83', BP fracture
						-17.97'-17.99', fracture, slightly healed, clay infilling, grey, dry
						-19.3', fracture
						-20.55'-20.63', moderately healed fracture along styolite, mudstone to clay infilling, dry
						-20.78'-20.84', fracture, partly healed, clay infilling, dark grey, damp
						-20.84', interbedded mudstone/siltstone, with styolites
						-21.16', fracture along styolite
						-21.63'-21.68', fracture, partly healed, clay infilling, dark grey, damp
						-21.73', fracture
						-21.78', fracture
						-22.30'-23.53', packstone sequence
						-23.53', BP fracture, along styolite
						-23.53'-23.89', grainstone
						-23.89', BP fracture, undulating, dry
						23.89'-31.10', Siltstone/Mudstone, medium grey, strong, laminated, unfractured, geodes, interbedded Packstone
						-25.36'-25.55' geode
						-26.5', fracture, bedding plane, partly healed, slight clay infill, grey
						-26.50'-26.66', packstone layer, fossiliferous
						-25.50'-25.64', geode
						-27.18'-30.34', vertical fracture, totally healed via secondary mineralization

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-7 Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 5/3/13 @ 0904
Drilling Date/Time Completed: 5/3/13 @ 1718

Drilling Contractor: Layne Christensen
Driller: Tom Devick

Drilling Fluid Used: Water
Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" tempora casing
Sampling Interval: 5.0 feet

Land-Surface Elev.: 689.9 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 41.0 Feet
Hole Diameter: 4.0 in.
Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 41.0 feet
Total Water Loss: 125 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-27.56'-27.61', geode
						-27.61', fracture, slight clay infilling, grey, dry
						-28.00'-28.55', interbedded packstone
						-29.54'-29.56', geode
						31.10'-35.80', Packstone/Wackestone, light greyish blue, strong, moderately fractured, fossiliferous, medium bedded
						-31.10'-31.45', packstone sequence
						-31.45'-32.72', wackestone sequence, laminated
						-31.45'-32.30', vertical fracture, clean, rough, dry
						-31.70' styolite
						-32.61', fracture, dry
						-32.72' BP fracture, rough, slight clay infill, damp
						-32.72'-33.85', packstone sequence, fossiliferous
						-33.85'-34.60', wackestone sequence
						-33.90'-34.05', boundstone, fossiliferous, medium grained, intensly disintegrated
						-34.60'-35.86', packstone sequence, fossiliferous, crinoids
						-35.17', fracture along styolite
						35.86'-39.13', Siltstone/Mudstone, medium grey, with packstone beds, strong
						-36.70'-37.08' packstone sequence
						-36.79', fracture
						-37.70'-38.12', packstone sequence
						-38.67'-39.13', packstone sequence
						-38.77'-38.83', siltstone layer
						-38.80', fractured, dry
						39.13'-52.0', Siltstone (Borden), strong, aphantic, massive, competent, dark grey, cross bedded
						41' End of Boring**
						****Installed recovery well (RW-19) in 2015, drilled deeper to 52.0' bgs for installation.**

SOIL BORING / SAMPLING LOG

Boring/Well: PH-1 | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 6

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/29/13 @ 1614 | Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen | Driller: Jason Gerwick

Drilling Fluid Used: N/A | Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0" | Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated | Water:

Total Depth Drilled: 50.47 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff | Hammer Weight: | Hammer Drop: ins.

Boring Termination Depth: 50.47 | Total Water Loss: 360 gallons | GPS Coordinates:

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	66	--	--	0 - 0.25'	**Topsoil, organics,** trace cinders and gravels
2.0	4.0	66	--	--	0.25 - 3.5'	**Silty Clay,** brown (10YR 3/4), soft, plastic, slightly moist, trace organics; Clayey Silt
4.0	6.0	66	--	--	3.5'-8.5'	**Silty Clay,** mottled browns and grays, firm to hard, slighly plastic, dry, brown (10YR 4/3)
6.0	8.0	66	--	--		8.0' inrease in moisture and becoming softer, limestone fragments
8.0	10.0	66	--	--	8.5'-10.0'	**Weathered Bedrock/Limestone,** competent bedrock at 10.0' bgs
						*Set 6" diameter teporary casing at 10.0'

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-1 Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 6

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 4/29/13 @ 1614
Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen
Driller: Jason Gerwick

Drilling Fluid Used: Water
Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 3.0"
Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 50.47 Feet
Hole Diameter: 4.0 in.
Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 50.47
Total Water Loss: 360 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.05	11.00	100	0	7.0	NM	**10.05'-10.80', Remodled Geode**, healed fractures, heavily fractured, fractures filled with clay, healed fractures have oxidation coloring
11.00	15.00	50	15.0	76.0	0	**10.80'-12.55', Silty Clay,** soft, brown (10YR 6/3), sands present at 11.00'
16.00	21.02	100	47.6	52.0	0	**12.55'-13.00', Remodled Geode**, healed fractures, heavy fracturing, fractures filled with clay, healed fractures have oxidation coloring
21.02	25.75	94.6	53.5	52.0	25	**13.00'-14.31', Siltstone,** grey, thinly bedded, competant, heavily fractured
25.75	30.60	97.0	62.3	23.0	0	-13.00', contact at geode, clay infill
30.60	34.40	100	73.4	33.0	20	-13.10', fracture, clay infill, rough
34.40	37.62	100	76.10	27.0	60	-13.22'-13.25', fracture, rough, pitted
37.62	39.97	0	0.00	27.0	15	-13.33-13.37, fracture, smooth
39.97	42.55	100	0.00	24.0	55	-13.50'-13.65', geode
42.55	46.00	100.00	65.2	13.0	65	-13.60'-13.65', fracture along geode
46.00	50.47	89.4	71.60	28.0	120	-13.70'-13.72', fracture, smooth
						-13.93'-13.95', fracture, smooth
						-14.31', contact, fracture
						14.31'-15.00', Packstone, bluish gray, massive, competant, heavily fractured, fenestrate bryozoa
						-14.36'-14.41', fracture, pitted
						-14.52'-14.55', fracture, rough
						-14.62'-14.64', fracture, rough
						-14.72'-14.74', fracture, smooth
						-14.77'-14.78', fracture, smooth
						15.00'-16.00', Lost during reaming and setting of casing
						16.00'-16.61', Siltstone, dark grey, thinly bedded, competant, unfractured
						-16.59'-16.61', fracture, contact, clean
						16.61'-16.97', Grainstone/Packstone, bluish grey, massive, competant, unfractured, crinoids
						-16.92'-16.97', fracture, contact, clean
						16.97'-17.34', Mudstone/Wackestone, bedded, competant, moderately fractured, light greenish grey
						-17.12'-17.13', fracture, clean

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-1 Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 6

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 4/29/13 @ 1614
Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen
Driller: Jason Gerwick

Drilling Fluid Used: Water
Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 3.0"
Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 50.47 Feet
Hole Diameter: 4.0 in.
Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 50.47
Total Water Loss: 360 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						17.34'-17.50', Grainstone, bluish gray, thinnly bedded, competant, slightly fractrued, crinoids
						-17.37'-17.39', fracture, clean
						17.50'-18.40', Siltstone/Mudstone, grey, thinnly bedded, competant, slightly fractured, trace glauconite
						-17.94'-17.97', fracture, clean
						-18.26'-18.37', fracture, 40 degrees, clean
						18.40'-19.34', Packstone, bluish grey, massive, competant, slightly fractured, trace glauconite
						-18.50', fracture, clean
						19.34'-20.20', Mudstone, light grey, bedded, competant, moderate fractures, geodes.
						-19.72'-19.75', fracture, clean
						-19.85'-19.88', fractrue, clean
						-20.12'-20.13', fracture, clean
						-20.12'-20.20', geode sequence
						-20.18'-20.20', fracture, contact, clean
						20.20'-23.27', Siltstone, dark grey, thinnly bedded, moderate strength, heavy fractures
						-20.30'-20.50', heavy fractures
						-20.48'-20.55' fracture, along geode
						-20.55'-20.75', geode, pink
						-20.79'-20.80', fracture along geode
						-20.80'-20.93', geode
						-20.92'-20.93', fracture along geode
						-20.93'-21.02', heavily fractured, moderate strength
						-21.02'-22.78', heavily fractured, moderate strength, weak
						-23.27' fracture, contact
						23.72'-23.43', Grainstone, dark grey, massive, competant, unfractured, crinoids, geodes
						-23.40'-23.43', contact
						23.43'-25.58', Mudstone, light grey, bedded, competant, moderately fractured, moderate strength
						-23.48'-23.54', fracture, clay infill
						-23.93'-24.02', fracture, weak, heavily fractured

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-1 Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 6

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 4/29/13 @ 1614
Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen
Driller: Jason Gerwick

Drilling Fluid Used: Water
Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 3.0"
Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 50.47 Feet
Hole Diameter: 4.0 in.
Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 50.47
Total Water Loss: 360 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-25.05'-25.08', fracture, clean
						-25.56'-25.58', fracture, contact, rough
						25.58'-25.75', Wackestone, bluish gray, massive, competant, unfractured
						-25.75', fracture, contact, DNAPL staining, creosote odor
						25.75'-27.85', Wackestone/Packestone, light greenish gray, massive, competant, slightly fractured, odor, creosote in return water
						-25.79'-25.83', fracture, 45 degrees, rough, creosote staining, odor, sheen
						27.85'-28.03', Packstone, greenish grey, glauconite, massive, competant, unfractured
						28.03'-28.58', Mudstone, light grey, bedded, competant, unfractured
						-28.58'-28.59', fracture, contact, slight odor
						28.58'-30.60', Siltstone, dark grey, thinnly bedded, competant, moderate to heavy fracturing, moderate strength
						moderate strength
						-29.45'-29.46', fracture, clean
						-29.46'-30.60', heavy fracturing, clay infill, odor, creosote staining
						30.60'-31.61', Grainstone, white to light grey, massive, strong, competant, unfractured
						31.61'-33.24', Wackestone w/ interbedded Mudstone/Wackestone, medium bluish grey, massive w/ bedding, competant, slightly fractured
						-32.53', fracture, clean
						33.24'-35.42', Packstone/Grainstone, bluish grey, massive, competant, moderate fracturing, glauconite, brachiopods
						-33.38'-33.41' fracture, clean
						-33.67'-33.70', fracture, clean
						-33.78'-33.85', fracture, 30 degrees, clean
						-34.01'-34.05' fracture, clean
						-34.40'-35.17' heavily fractured, drilled twice, clean
						35.47'-37.62', Siltstone/Mudstone, thinnly bedded with geodes, competant, moderately fractured
						-36.41'-36.42' fracture, clean

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-1 Project/No. IN Creosote / IN000072.0070.00001 Page 5 of 6

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 4/29/13 @ 1614
Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen
Driller: Jason Gerwick

Drilling Fluid Used: Water
Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 3.0"
Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 50.47 Feet
Hole Diameter: 4.0 in.
Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 50.47
Total Water Loss: 360 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-36.84'-36.86', fracture, along geode
						-37.00'-37.04', fracture, along geode
						-37.42-37.48', clay interval
						37.62'-39.92', No Recovery, no core in barrel, no care at bottom of borehole
						39.92'-42.55', Siltstone w/ interbedded Mudstone/Wackestone, dark grey, thinly bedded, moderate to weak strength, heavily fractured
						39.92'-40.92', fracture, vertical
						40.92'-40.93', fracture, clean, wackestone contact
						44.11'-41.66', heavily fractured
						41.86'-42.27', fracture, vertical
						42.27'-42.28', fracture, clay infill
						42.46'-42.56', clay infill, glauconite
						42.55'-43.58', Packstone, light greenish grey, massive, competant, strong, moderate fracturing, crinoids, brachiopods, rugose coral, glauconite
						-42.52', contact with clay, fracture
						-42.68'-42.81', fracture, weak, water loss zone
						-43.20-43.31', styolite
						-43.33'-43.48', styolite
						-43.34'-43.37', fracture along styolite
						43.58'-46.28', Mudstone with interbedded Wackestone, medium to dark grey, bedded, competant; Drilled twice (43.58 - 46.00'), small geodes
						-45.27', fracture, clean
						-44.27'-46.00', heavily fractured due to drilling twice
						46.28'-48.22', Packstone, light to medium grey, massive, competant, strong, slightly fractured
						-47.75'-47.76', fracture, rough, pitted
						- 48.07'-48.10', fracture, along geode, smooth, glauconite
						-48.10'-48.22', geode
						-48.22', fracture, along geode, clay infill, glauconite, pyrite mineralization

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-1 Project/No. IN Creosote / IN000072.0070.00001 Page 6 of 6

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 4/29/13 @ 1614

Drilling Date/Time Completed: 5/1/13 @ 1213

Drilling Contractor: Layne Christensen

Driller: Jason Gerwick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 3.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 691.41 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 50.47 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 50.47

Total Water Loss: 360 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						48.22'-50.47', Siltstone (Borden), dark grey, thinnly bedded, cross-bedding, moderate strength
						-50.00'-50.15', clay interval

SOIL BORING / SAMPLING LOG

Boring/Well: PH-3 | Project/No.: IN Creosote / IN000072.0070.00001 | Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/2/13 @ 1249

Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne Christensen

Driller: Jason Gerwick

Drilling Fluid Used: N/A

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.72 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 46.30 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 46.3

Total Water Loss: 675 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:
- South of MW-30
- North of RW-11

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	2.0	25	--	--		0 - 1.0'	**Clay,** brown, fill and gravels
2.0	4.0	25	--	--		1.0'-4.5'	**Cinders,** black, trace sands and gravels, organics
4.0	6.0	100	--	--		4.5'-6.25'	**Silty Clay with Gravels,** fine grained, dry, slighly plastic, trace pebbles, firm
6.0	8.0	100	--	--		6.25'-6.75'	**Silty Clay with Gravels,** bedrock fragments, brown, slightly moist, slighly plastic, hard
8.0	10.0	100	--	--		6.75'-10.0'	**Weathered Bedrock and Silt**
10.0	12.0	100	--	--		10.0'-12.0'	**Competant Bedrock,** set temporary casing at 12 feet.

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ROCK CORING / SAMPLING LOG

Boring/Well PH-3 Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/2/13 @ 1249

Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne Christensen

Driller: Jason Gerwick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.72 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 46.30 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 46.30

Total Water Loss: 675 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
11.68	16.00	100	93.1	32	70	**11.68'-12.50', Packstone,** medium bluish grey, massive, strong, competant, unfractured
16.00	21.02	100	89.4	29.0	85	-12.50'-12.59', fracture, contact, odor, sheen
21.02	26.18	100	94.6	34.0	110	**12.50'-12.81', Chert,** light greenish orange, massive to bedded, strong, cohesive, slightly fractured, odor, sheen
26.18	31.18	100	97.6	37.0	120	-12.50'-12.81', vertical fracture, odor, sheen
31.18	36.27	100	100.0	25.0	110	-12.81'-12.87', clay interval
36.27	41.36	100	100.0	27.0	70	**12.87'-14.56', Mudstone/Wackestone,** light greenish grey, bedded, strong, cohesive, moderate fractures
41.36	46.30	98.8	--	22.0	110	-13.47'-13.48', fracture, clean
						-13.97'-13.98', fracture, contact
						-13.98'-14.08', Packstone sequence
						-14.45'-14.47', fracture, clean
						14.56'-15.88', Mudstone, grey, bedded, strong, competant, unfractured
						15.88'-18.48', Interbedded Packstone/Wackestone, dark grey to light grey, massive to bedded, strong, competant, trace mudstones, geodes
						-16.28', fracture, partly weak, smooth, glauconite
						-16.79'-16.80', fracture, clean
						-17.07'-17.27', large geode, open
						-17.85'-18.06', large geode, open
						-18.47'-18.48', fracture, contact
						18.48'-22.13', Siltstone/Mudstone, dark grey, thinly bedded, strong, competant, slightly fractured, geodes
						-19.95'-20.83', geode sequence
						-20.04'-20.06', fracture, along geode
						-20.25'-20.32', fracture, along geode
						22.13'-22.67', Mudstone/Wackestone, light greenish grey, bedded, strong, competant, unfractured
						-22.66'-22.67', fracture, contact
						22.67'-23.47', Grainstone/Packstone, dark bluish grey, massive, strong competant, unfractured

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-3 Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/2/13 @ 1249

Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne Christensen

Driller: Jason Gerwick

Drilling Fluid Used: Water

Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"

Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.72 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 46.30 Feet

Hole Diameter: 4.0 in.

Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 46.30

Total Water Loss: 675 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						23.47'-24.15', Wackestone, light grey to light greenish grey, massive, strong, competant, unfractured
						24.15'-24.96', Siltstone, dark greenish grey to dark grey, glauconite, moderate strenth to weak, moderately fractured
						-24.17'-24.25', heavy fracturing, weathered
						-24.45'-24.48', soft, clay interval, weathered
						-24.65', color transition to dark grey
						24.96'-26.32', Packstone, medium bluish grey, massive, strong, competant
						-26.30'-26.32', fracture, contact, clean
						26.32'-28.06', Siltstone with interbedded Wackestone, dark grey, bedded, strong, competant, slightly fractured
						-27.32'-27.33', fracture, clean
						-28.00'-28.03', fracture, contact, along geodes
						28.06'-29.91', Wackestone with interbedded Packstone sequence, light greenish grey, massive, strong, competant, unfractured
						29.91'-31.18', Packstone/Grainstone, light greenish grey, massive, strong, competant, unfractured
						31.18'-32.24', Interbedded Mudstone/Wackestone/Grainstone, light bluish grey to medium grey, massive to bedded, strong, competant, unfractured
						-32.03'-32.24', grainstone sequence
						32.24'-37.55', Mudstone/Siltstone, with trace grainstones and wackestones, light greenish grey to dark grey, bedded (thin to large), strong, competant, slightly fractured, geodes
						-33.00'-33.02', fracture, along geode
						-33.00'-33.20', geode, large, open
						-33.25'-33.55', grainstone sequence
						-33.73-33.86', geode, open
						-35.39-35.61', geode layer
						37.55'-37.63', Weathered Siltstone, dark grey, thinly bedded, moderate strength, moderately fractured
						-37.59'-37.63', weak, fractured, clay infill
						37.63-38.30', Wackestone/Packstone, light greenish grey, massive, strong, slightly fractured,

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ROCK CORING / SAMPLING LOG

Boring/Well PH-3 Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 4

Site Location: Bloomington, Indiana
Drilling Date/Time Started: 5/2/13 @ 1249
Drilling Date/Time Completed: 5/3/13 @ 1627

Drilling Contractor: Layne Christensen
Driller: Jason Gerwick

Drilling Fluid Used: Water
Drilling Method: Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.0"
Sampling Interval: 5.0 feet

Land-Surface Elev.: 688.72 feet [X] Surveyed [ ] Estimated
Water: N/A

Total Depth Drilled: 46.30 Feet
Hole Diameter: 4.0 in.
Coring Device: HQ Diamond Bit

Prepared By: R. Woodruff
Hammer Weight: N/A
Hammer Drop: N/A ins.

Boring Termination Depth: 46.30
Total Water Loss: 675 gallons
GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						brachiopods, glauconite
						-37.63'-37.77', styolite
						-38.07'-38.09', fracture, clean
						-38.26'-38.35', styolite, healed fracture, glauconite
						38.30'-42.73', Interbedded Mudstone/Wackestone, light greenish grey to medium grey, massive to bedded, strong, competant, unfractured
						42.73'-44.31', Interbedded Mudstone/Wackestone/Grainstone, light greenish grey to dark grey, massive to bedded, strong, competant, unfractured
						- 44.31', fracture, contact, clay infill
						44.31'-46.30', Siltstone (Borden), dark grey to dark greenish grey, thinly bedded, cross-bedding, strong, competant

SOIL BORING / SAMPLING LOG

Boring/Well: PH-9 | Project/No.: IN Creosote / IN000072.0070.00001 |

Site Location: Bloomington, Indiana | Drilling Date/Time Started: 5/13/13 @ 0945 | Drilling Date/Time Completed: 5/13/13 @ 1615

Drilling Contractor: Layne Christensen | Driller: Tom Devick

Drilling Fluid Used: Water | Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing | Sampling Interval: 5.0 feet

Land-Surface Elev.: 687.66 feet [X] Surveyed [ ] Estimated | Water: N/A

Total Depth Drilled: 41.33 Feet | Hole Diameter: 4.0 in. | Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey | Hammer Weight: N/A | Hammer Drop: N/A ins.

Boring Termination Depth: 41.33' | Total Water Loss: Up to 635 gallons (see note on page 2) | GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches	USCS	Description/Depth From - To	Sample/Core Description
0.0	2.0	100	--	--		0.0'-0.7'	**Silt, some clay,** medium plasticity, trace to little sand, fine to medium grained, trace granules, moist, soft, dark brown
2.0	4.0	100	--	--		0.7'-6.5'	**Clay and Silt,** high plasticity, no dilatency, trace to little sand, fine to medium, trace granules, moist, very soft, dark yellowish brown, mottled greyish brown
4.0	6.0	100	--	--		6.5'-9.0'	**Limestone, weathered,** yellowish grey to light grey
6.0	7.0	100	--	--			-temporary casing set at 10'
7.0	9.0	100	--	--			

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-9 Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/13/13 @ 0945

Drilling Date/Time Completed: 5/13/13 @ 1615

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 687.66 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.33 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.33'

Total Water Loss: Up to 635 gallons (see note on page 2)

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
10.21	15.09	100	73.8	30.0	0	**10.21'-14.02', Siltstone/Mudstone,** strong, dark grey, laminated, moderately fractured, geodes
15.09	16.00'	100	100.0	10.0	0	-10.21'-10.53', mechanically fractured
16.00	20.93	100	98.3	36.0	0	-10.94'-11.00', geode
20.93	26.00	100	100.0	25.0	*175	-11.00', fracture along geode, tight
26.00	31.08	100	100.0	30.0	*170	-11.52'-11.61', fracture, moderately healed, clay infill,-dark grey, damp
31.08	36.00	100	100.0	27.0	*140	-11.67'-fracture, slight clay infilling, dark grey
36.00	41.33	100	--	24.0	*150	-12.08'-fracture along geode
						-12.08'-12.15', geode
		* Believe most of water loss is due to bad seal between catch pan and temporary casing. Casing is vibrating the benseal seal loose and water is running the the ole on the outside o of the casing				-12.28', fracture
						-12.53'-12.66', clustered geodes
						-12.66', fracture, along geodes
						-12.66'-14.02', interbedded wackestone
						-13.46'-13.50', geode
						14.02'-14.05', Boundstone, grey
						14.05'-14.21', Grainstone, strong, medium greyish blue, fossiliferous, crinoids, styolites
						14.21'-17.38', Packstone/Wackestone, strong, light grey to medium grey, fossiliferous, interbedded
						-15.37'-15.56', grainstone, strong, medium greyish blue, fossiliferous, crinoids, styolites
						-15.56', fracture along styolite, rough, dry
						-15.61', healed fracture
						-16.83'-17.38', wackestone sequence
						-*source of water loss is due to fractures encountered in Run # 3 (17.38'-17.52' and/or 19.32'-19.36')
						17.38'-18.86', Siltstone/Mudstone, strong, dark grey, laminated, competant
						-17.38'-17.52', B.P fracture, partly healed, clay infill-(clay, some silt, high plasticity, little sand, fine, moist, grey), dark grey, damp
						18.86'-21.78', Packstone, strong, light grey, fossiliferous, crinoids, styolites, moderately fractured
						-19.32'-19.36', fracture, probably mechanical
						-19.60', styolite
						-19.68', styolite

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-9 Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/13/13 @ 0945

Drilling Date/Time Completed: 5/13/13 @ 1615

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 687.66 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.33 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.33'

Total Water Loss: Up to 635 gallons (see note on page 2)

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-19.73', styolite
						-19.78'-19.83', fracture, along styolite, moderately healed, clay infill, dark grey, damp, slight creosote
						odor, (*no presence of DNAPL or sheen)
						-19.95'-20.93', wackestone interbedded (medium bedded)
						-20.93'-21.51', grainstone sequence
						-21.51', fracture, narrow, rough, dry
						21.78'-24.50', Wackestone, strong, medium grey, unfractured,
						-23.65'-24.10', interbedded grainstone layers
						-24.32'-24.50', grainstone
						24.50'-29.26', Siltstone/Mudstone, strong, dark grey, laminated, slightly disintegrated
						-25.96'-26.00', lost due to mechanics
						-27.03'-27.09', geode
						-27.92'-28.30', packstone sequence
						29.26'-30.45', Packstone/Grainstone, strong, light to medium grey, interbedded
						-29.40'-29.50', fracture, moderately healed, clay infill, dark grey, damp to wet with minor seepage
						-29.65', styolite
						-30.08'-30.16', wackestone layer
						-30.45', styolite
						30.45'-31.65', Wackestone Sequence
						-31.15', fracture along styolite, rough, dry
						31.65'-37.06', Siltstone/Mudstone, strong, dark grey, laminated, unfractured, geodes
						-35.10'-35.15', grainstone layer
						-36.05'-36.40', grainstone layer
						-36.56'-36.68', grainstone layer
						-37.06', styolite
						37.06'-37.50', Packstone, strong, light grey, fossiliferous
						-37.24', styolite
						-37.50', fracture, partly healed, clay infill, dark grey, narrow

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-9 Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/13/13 @ 0945

Drilling Date/Time Completed: 5/13/13 @ 1615

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 687.66 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 41.33 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 41.33'

Total Water Loss: Up to 635 gallons (see note on page 2)

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						37.50'-41.33', Siltstone (Borden), strong, dark grey, laminated, cross-bedding, competent
						41.33' End of Boring

SOIL BORING / SAMPLING LOG

Boring/Well PH-11 Project/No. IN Creosote / IN000072.0070.00001 Page 1 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/15/13 @ 1503

Drilling Date/Time Completed: 5/16/13 @ 1331

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 694.06 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.93 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.93'

Total Water Loss: 900 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	OVM Reading (ppm)	Blow Counts per 6 inches		USCS Description/Depth From - To	Sample/Core Description
0.0	5.0	40	--	--		0.0'-5.9'	**Silt and Clay,** high plasticity, little sand, fine to medium grained, moist, soft to very soft, dark yellowi
5.0	7.5	100	--	--			4.5', some weathered limestone rock fragments, angular
						5.9'-7.2'	**Weathered Limestone,** very weak, grey to yellowish brown
						7.2'-7.5'	**Packstone,** strong, light grey, fossiliferous
							*Advancing temporary casing to 10' bgs.

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-11 Project/No. IN Creosote / IN000072.0070.00001 Page 2 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/15/13 @ 1503

Drilling Date/Time Completed: 5/16/13 @ 1331

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 694.06 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.93 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.93'

Total Water Loss: 900 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
9.02	13.87	100	77.0	33	0	**9.02'-13.04', Packstone,** strong, light grey, fossiliferous, massive, moderately fractured, crinoids, stylolites
13.87	16.00	99.8	100.0	19.0	0	-9.02'-10.0', mechanically broken due to temparary casing advancement
16.00	20.82	100	95.8	31.0	225	-10.38'-10.40', fracture, along stylolite, rough, dry
20.82	25.86	100	97.0	34.0	200	-10.75'-10.76', fracture, along stylolite, rough, dry
25.86	30.80	100	100.0	25.0	175	-10.87', styoliet
30.80	35.97	100	93.2	32.0	150	-11.40', fracture, along stylolite, dry
35.97	40.93	99.2	--	30.0	150	-11.51', fracture, along stylolite, dry
						-12.86'-13.04', fracture, bedding plane, partly healed, clay infill with some sand, fine to coarse grained, some weathered rock, high plasticity, moist, very soft, grey
						13.04'-15.06', Siltstone/Mudstone, strong, dark grey, laminated, unfractured
						15.06'-15.65', Grainstone, strong, medium greyish blue, fossiliferous, crinoids, massive, unfractured
						15.65'-18.57', Wackestone, strong, medium greyish blue
						-16.32'-16.50', interbedded (thinly) siltstone
						-16.50', fracture, along stylolite, trace clay infill, rough, pitted
						-16.43'-16.90', thinly interbedded, siltstone
						-16.43', fracture, along stylolite, trace clay infill, rough, pitted
						-18.50', fracture along stylolite, trace clay infill
						-18.57', fracture, bedding plane, along stylolite, rough, pitted
						18.57'-24.26', Packstone, strong, light grey, massive, fossiliferous, styolites, crinoids, moderately fractured
						-18.63', styolite
						-18.75', styolite
						-19.18', styoliet
						-19.85', fracture along styolite, trace clay infill
						-19.85'-19.92', fractured rock
						-19.92', fracture along styolite trace clay infill
						-20.51', fracture, along styolite trace clay infill

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-11 Project/No. IN Creosote / IN000072.0070.00001 Page 3 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/15/13 @ 1503

Drilling Date/Time Completed: 5/16/13 @ 1331

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 694.06 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.93 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.93'

Total Water Loss: 900 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						-20.82'-21.14', siltstone/mudstone, strong, dark grey competant
						-21.14'-22.39', thin interbedded siltstone
						-21.72'-22.64', vertical fracture, rough wet with minor seepage, creosote (DNAPL) present, odor, zone of water loss
						-22.25'-22.40', rock fragments, mechanically broken along vertical fracture
						-22.40'-23.00', thinly interbedded wackestone
						-24.13', fracture along styolite
						24.26'-31.75', Wackestone, strong, medium grey to dark grey, thinly interbedded siltstone/mudstone
						-26.45'-26.58', geode cluster
						-26.60'-26.70', gainstone layer
						-27.00'-30.50', increase in siltstone/mudstone
						-27.1'-27.19', grainstone layer
						-28.46', fracture along very small geodes
						-29.02'-29.23', geode
						-31.65'-31.75', grainstone layer
						31.75'-32.94', Packstone, light grey, strong, fossiliferous, moderately fractured
						-31.75', fracture along styolite
						-31.79'-31.90', fracture, partly healed, clay infill, some sand, fine to medium, some rock fragment, angular, high plasticity, damp, dark grey, zone of water loss?, slight odor
						-31.92'-32.08', mechanically fractured rock
						-32.9', healed fracture
						-32.93' BP fracture
						32.94'-39.96', Wackestone, strong, medium greyish blue with thinly interbedded siltstone/mudstone, trace geodes
						-33.32', increasing siltstone/mudstone with thinly interbedded wackestone
						-38.5'-38.85', packstone sequence
						-38.74', fracture, rough, dry
						-38.95'-39.2', grainstone sequence

ARCADIS

ROCK CORING / SAMPLING LOG

Boring/Well PH-11 Project/No. IN Creosote / IN000072.0070.00001 Page 4 of 4

Site Location: Bloomington, Indiana

Drilling Date/Time Started: 5/15/13 @ 1503

Drilling Date/Time Completed: 5/16/13 @ 1331

Drilling Contractor: Layne Christensen

Driller: Tom Devick

Drilling Fluid Used: Water

Drilling Method: Roto Sonic

Length and Diameter of Coring Device: 5.0' core barrel / 4.25", 6.25" temporary casing

Sampling Interval: 5.0 feet

Land-Surface Elev.: 694.06 feet [X] Surveyed [ ] Estimated

Water: N/A

Total Depth Drilled: 40.93 Feet

Hole Diameter: 4.0 in.

Coring Device: 5.0' sonic coring barrel

Prepared By: Meryl Stuckey

Hammer Weight: N/A

Hammer Drop: N/A ins.

Boring Termination Depth: 40.93'

Total Water Loss: 900 gallons

GPS Coordinates: N/A

Sampling Data:

Depth	Grab/Composite	Time	QA/QC Samples	Laboratory Analysis
N/A				
			--	

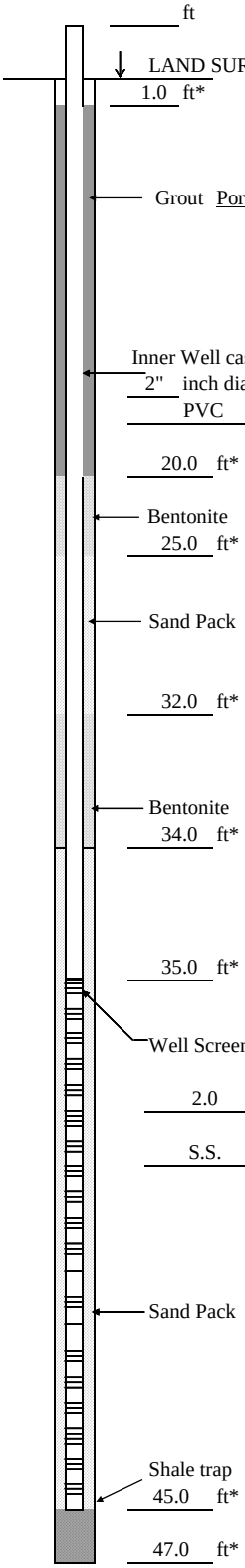
Boring/Well Location Sketch:

Soil Characterization:

Sample/Core Depth (Feet bls) From	To	Core Recovery (%)	RQD (%)	Minutes/ Run	Water Loss	Sample/Core Description
						39.36'-40.93', Silstone (Borden), strong, massive, dark grey, laminated, unfractured

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-32B

****Nested Wells (one boring-two wells): Reference MW-32C for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/9/12 - 4/10/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 6.35 feet below M.P.

Water Removed During Development 30 gallons

Pumping Duration 23 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	35.0

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length	n/a
(If applicable)	

Final Measurements:

Depth To Bottom: 49.12' ft. below M.P.

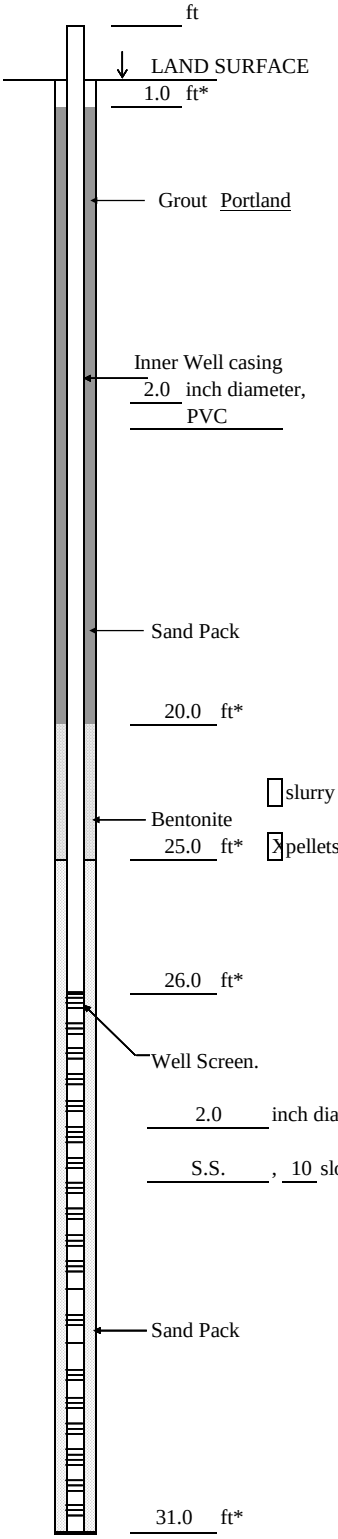
Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

* Depth Below Land Surface

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-32C

****Nested Wells (one boring-two wells): Reference MW-32B for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/9/12 - 4/10/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 5.98 feet below M.P.

Water Removed During Development 58 gallons

Pumping Duration 31 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S
Diameter	2.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	5.0'

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	26.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

Depth To Bottom: ____ ft. below M.P.

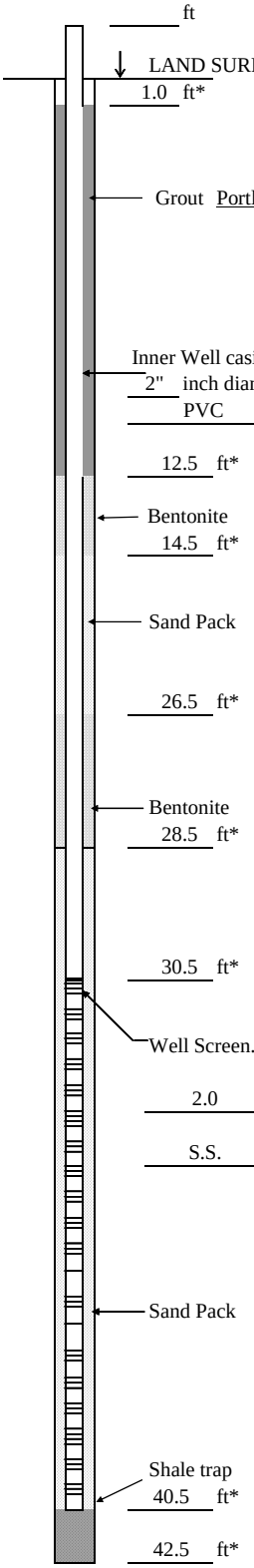
Prepared by: Randall Woodruff

* Depth Below Land Surface

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-54A

****Nested Wells (one boring-two wells): Reference MW-54B for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/11/12 - 4/12/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 3.46 feet below M.P.

Water Removed During Development 11.5 gallons

Pumping Duration 8 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	30.5

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

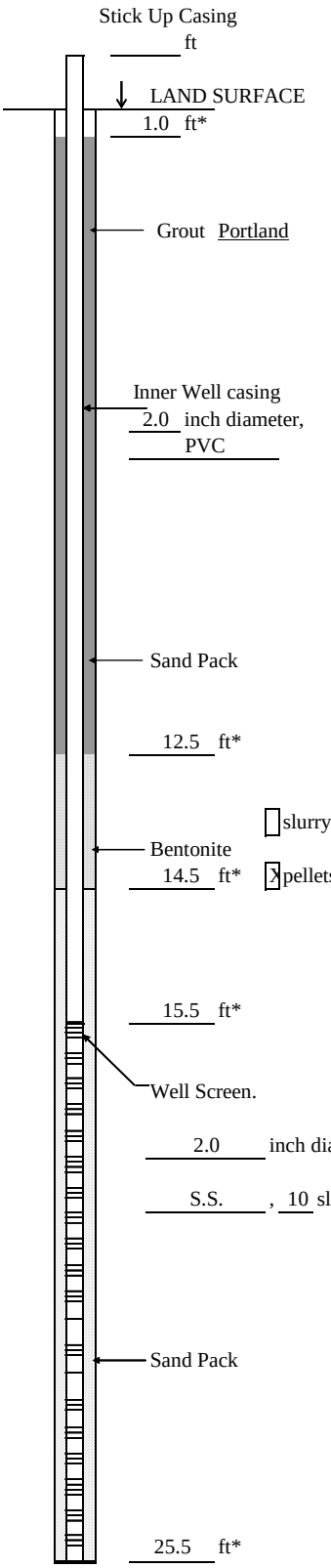
Depth To Bottom: 44.79 ft. below M.P.

Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

* Depth Below Land Surface

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-54B

****Nested Wells (one boring-two wells): Reference MW-54A for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/11/12 - 4/12/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 3.54 feet below M.P.

Water Removed During Development 120 gallons

Pumping Duration 44 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	15.5

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

Depth To Bottom: 27.20 ft. below M.P.

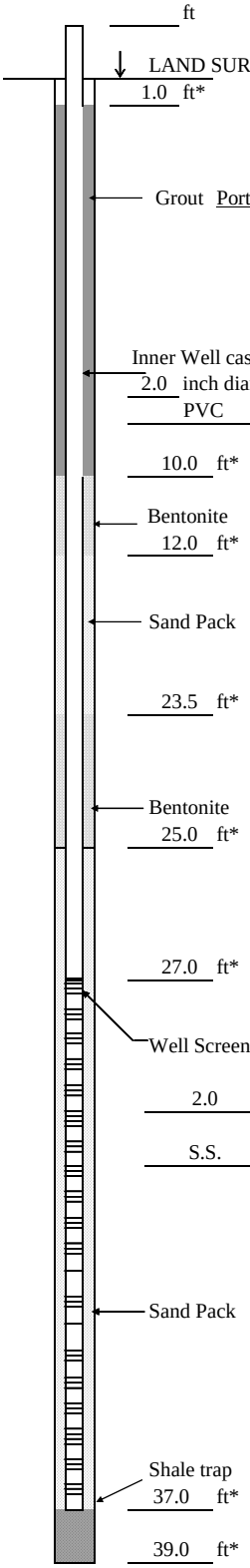
Prepared by: Randall Woodruff

* Depth Below Land Surface

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-55A

****Nested Wells (one boring-two wells): Reference MW-55B for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/12/12 - 4/13/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 5.31 feet below M.P.

Water Removed During Development 12.5 gallons

Pumping Duration 10 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	27.0

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

Depth To Bottom: 40.94. ft. below M.P.

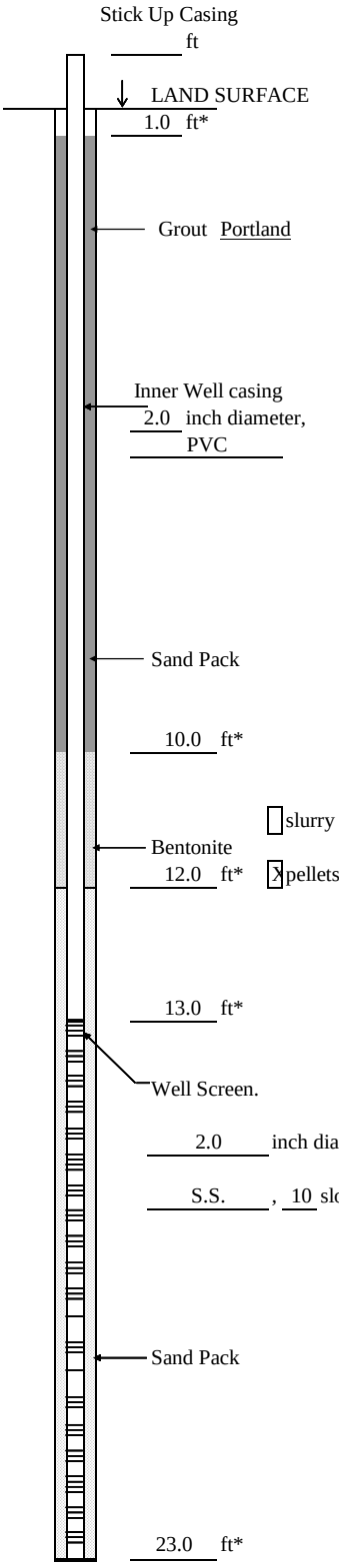
Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

* Depth Below Land Surface

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-55B

****Nested Wells (one boring-two wells): Reference MW-55A for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/12/12 - 4/13/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 5.95 feet below M.P.

Water Removed During Development 74 gallons

Pumping Duration 42 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	13.0

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

Depth To Bottom: 25.08 ft. below M.P.

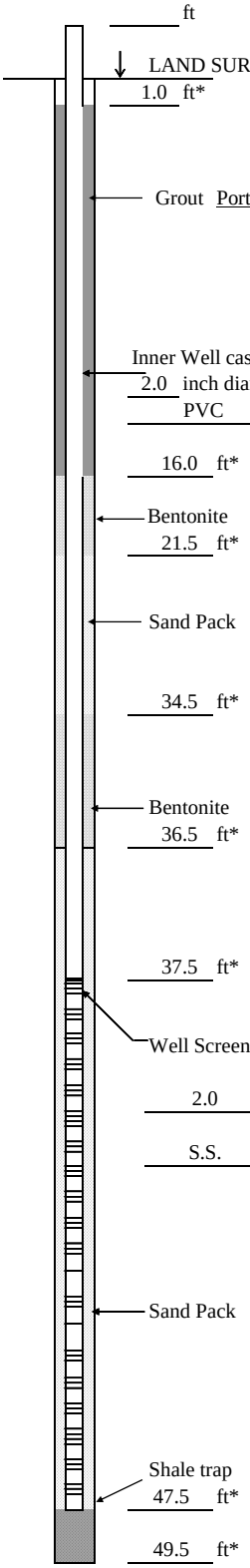
Prepared by: Randall Woodruff

* Depth Below Land Surface

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-56A

****Nested Wells (one boring-two wells): Reference MW-56B for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/16/12 - 4/17/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

Static Depth to Water 5.01 feet below M.P.

Water Removed During Development 12.5 gallons

Pumping Duration 12 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	37.5'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length	n/a
(If applicable)	

Final Measurements:

Depth To Bottom: 52.05 ft. below M.P.

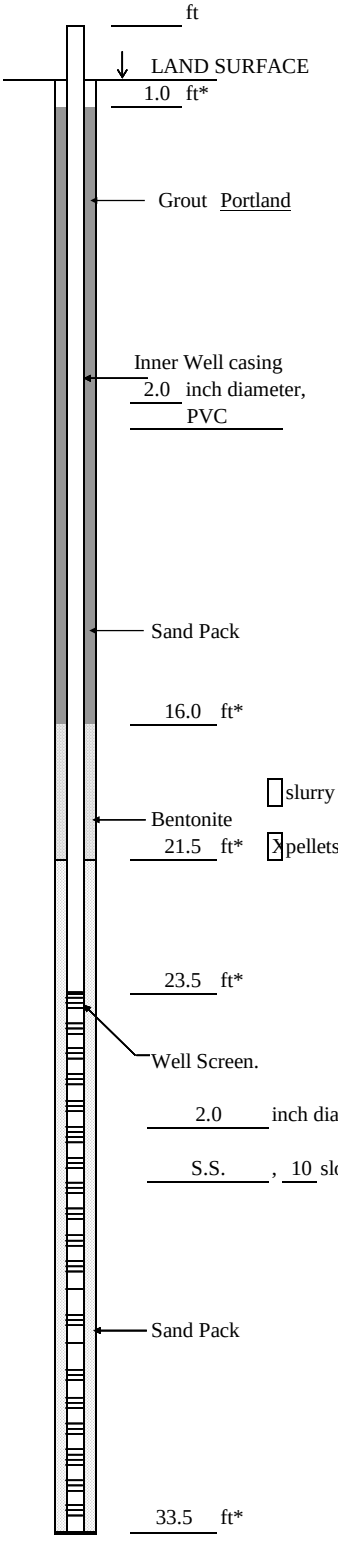
Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

* Depth Below Land Surface

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0064.00001 Well MW-56B

****Nested Wells (one boring-two wells): Reference MW-56A for other well**

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet ☐ Surveyed

☐ Estimated

Installation Date(s) 4/16/12 - 4/17/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic / HQ

Drilling Fluid Water

Measurement Point (M.P.): TOC

Development Technique(s) and Date(s)

Whale pump with surging

☐ slurry

☒ pellets

Static Depth to Water 4.8 feet below M.P.

Water Removed During Development 10 gallons

Pumping Duration 7 minutes

Well Purpose Monitoring

Depth To Bottom (Post Development) ____ ft. below M.P.

Screen:

Type	S.S.
Diameter	2.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Blank	na
Total Screen	na
Total Length	10.0

Inner Well Casing:

Type	PVC
Diameter	2.0"
Joint Type	threaded
Total Length	23.5

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	Stickup
Diameter	6"
Total Length (If applicable)	n/a

Final Measurements:

Depth To Bottom: 36.30 ft. below M.P.

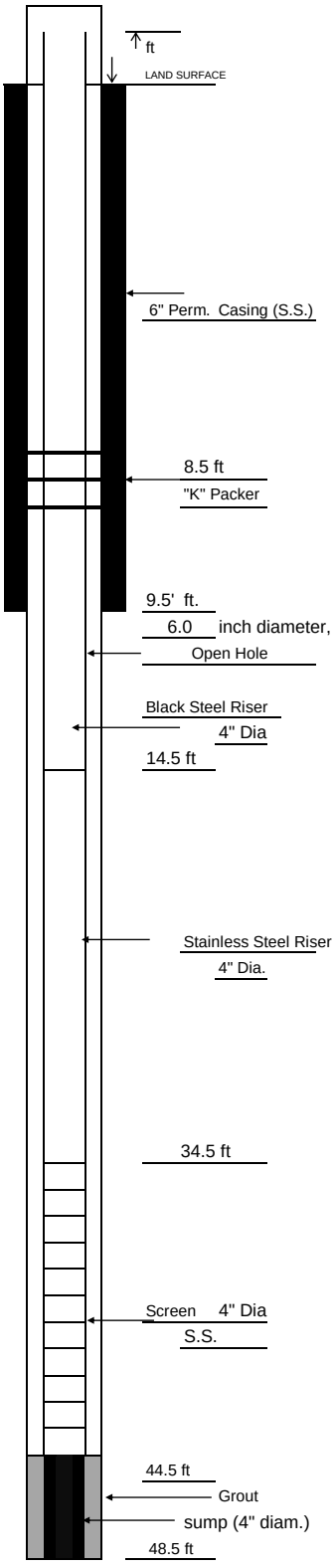
Prepared by: Randall Woodruff

* Depth Below Land Surface

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0064.00001 Well RW-8

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

689 feet [x] Surveyed

[ ] Estimated

Installation Date(s) 4/18/12 - 4/19/12

Drilling Contractor Boart Longyear

Driller/License # Jason Greer

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.):

Development Technique(s) and Date(s)

N/A

Static Depth to Water _____ feet below M.P.

Water Removed During Development _____ gallons

Pumping Duration _____ minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) _____ ft. below M.P.

Screen:

Type	S.S.
Diameter	4.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Sump	4.0'
Total Screen	na
Total Length	na

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	na
Total Length	10.5'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	6"
Total Length (If applicable)	na

Final Measurements:

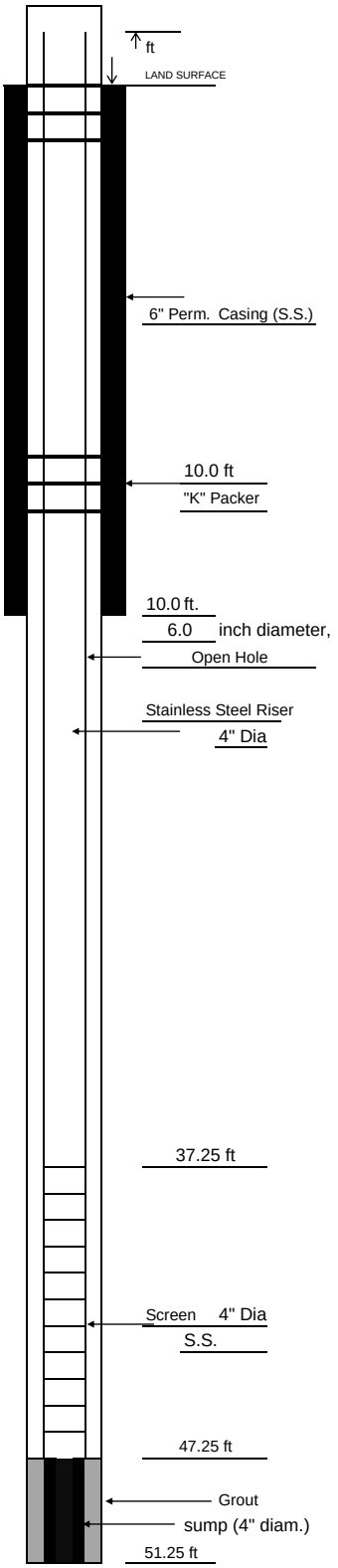
Depth To Bottom:____ ft. below M.P.

Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0064.00001 Well RW-9

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

690 feet [ ] Surveyed

[x] Estimated

Installation Date(s) 10/15/12 - 10/17/12

Drilling Contractor Major Drilling

Driller/License # David Chamblee

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.):

Development Technique(s) and Date(s)

N/A

Static Depth to Water _____ feet below M.P.

Water Removed During Development _____ gallons

Pumping Duration _____ minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) _____ ft. below M.P.

Screen:

Type	S.S.
Diameter	4.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Sump	4.0'
Total Screen	10.0'
Total Length	na

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	na
Total Length	10.5'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	na

Final Measurements:

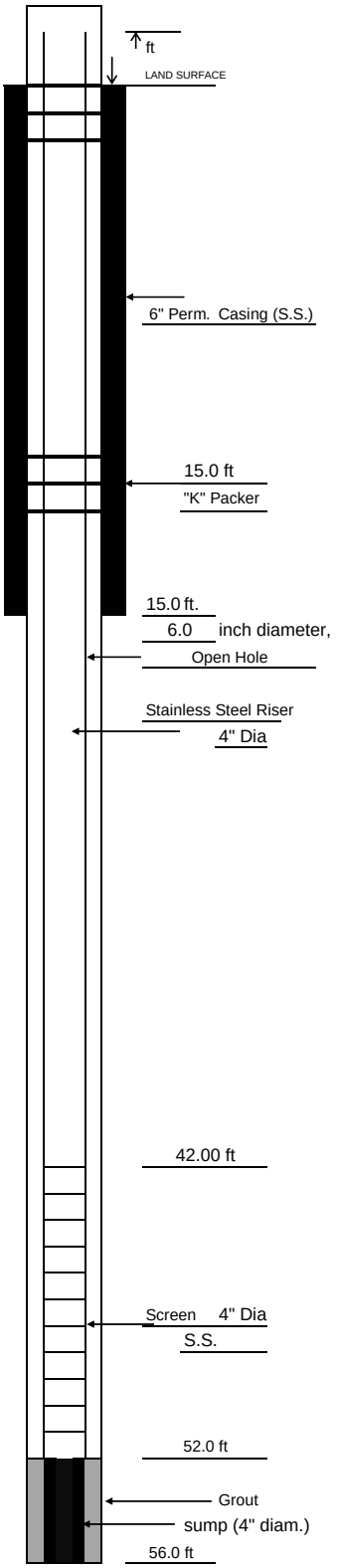
Depth To Bottom: ____ ft. below M.P.

Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0064.00001 Well RW-10

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

688 feet [ ] Surveyed

[x] Estimated

Installation Date(s) 10/18/12 - 10/19/12

Drilling Contractor Major Drilling

Driller/License # David Chamblee

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.):

Development Technique(s) and Date(s)

N/A

Static Depth to Water _____ feet below M.P.

Water Removed During Development _____ gallons

Pumping Duration _____ minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) _____ ft. below M.P.

Screen:

Type	S.S.
Diameter	4.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Sump	4.0'
Total Screen	10.0'
Total Length	na

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	na
Total Length	15.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	na

Final Measurements:

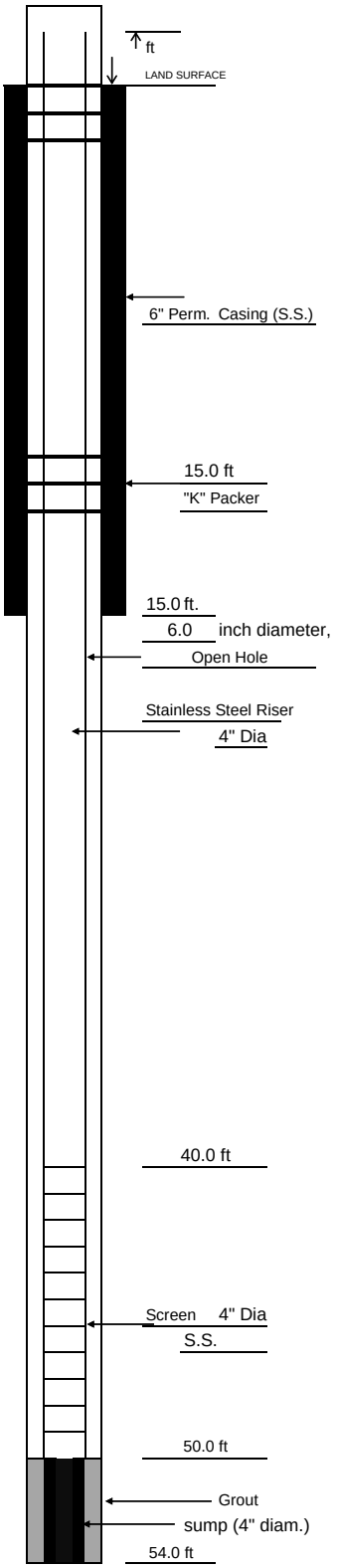
Depth To Bottom: ____ ft. below M.P.

Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0064.00001 Well RW-11

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

688 feet [ ] Surveyed

[x] Estimated

Installation Date(s) 10/15/12 - 10/17/12

Drilling Contractor Major Drilling

Driller/License # David Chamblee

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.):

Development Technique(s) and Date(s)

N/A

Static Depth to Water _____ feet below M.P.

Water Removed During Development _____ gallons

Pumping Duration _____ minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) _____ ft. below M.P.

Screen:

Type	S.S.
Diameter	4.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	na
Bottom Sump	4.0'
Total Screen	10.0'
Total Length	na

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	na
Total Length	15.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	na

Final Measurements:

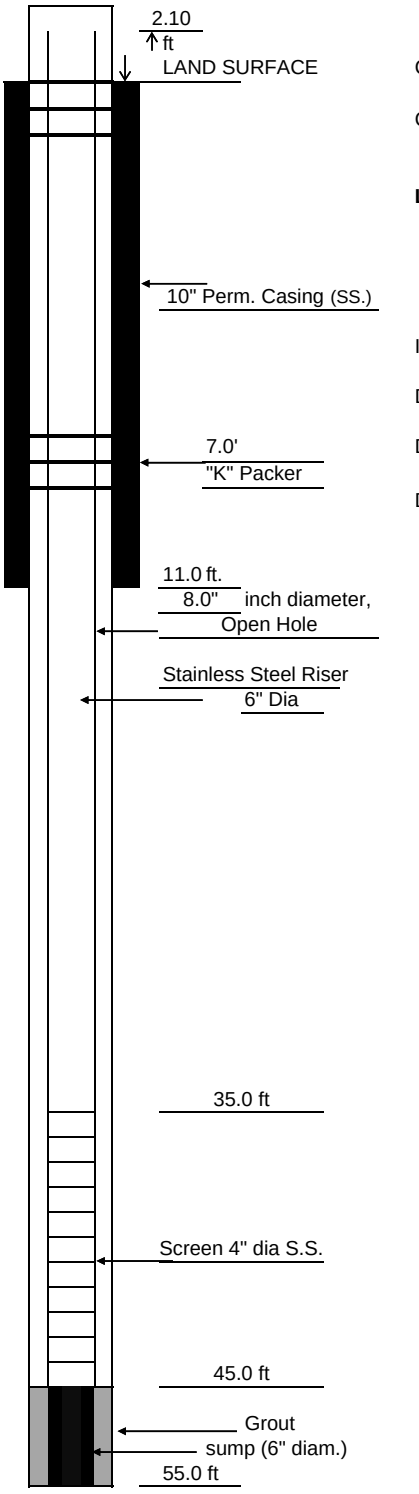
Depth To Bottom: ____ ft. below M.P.

Prepared by: Randall Woodruff

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-12

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

686.82 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 05/21/13 - 05/23/13

Drilling Contractor Layne Christensen

Driller/License # Tom Delvick

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

6/4/13 - During airlifing, RW-12 had ~12.0' of sediment. Slight creosote odor (no observed DNAPL).

Static Depth to Water -- feet below M.P.

Water Removed During Development 40 gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	35.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

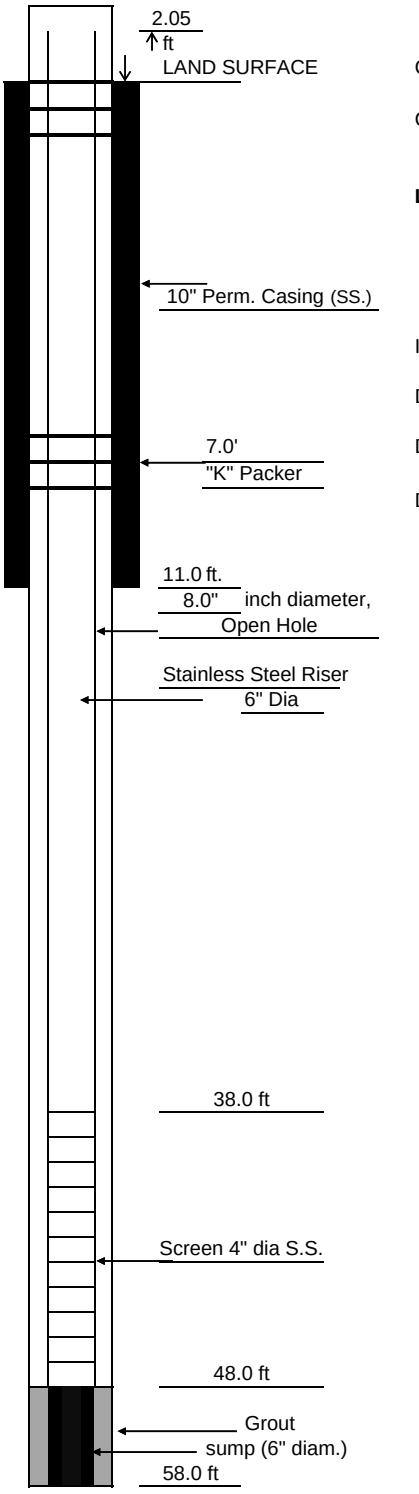
Depth To Bottom: 56.88 ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-13

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

686.52 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 05/29/13 - 05/30/13

Drilling Contractor Layne Christensen

Driller/License # Jason Gerwing

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

6/4/13 - RW-13 was clean of any observed sediment -- did not develop.

Static Depth to Water 6.15 feet below M.P.

Water Removed During Development -- gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	38.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

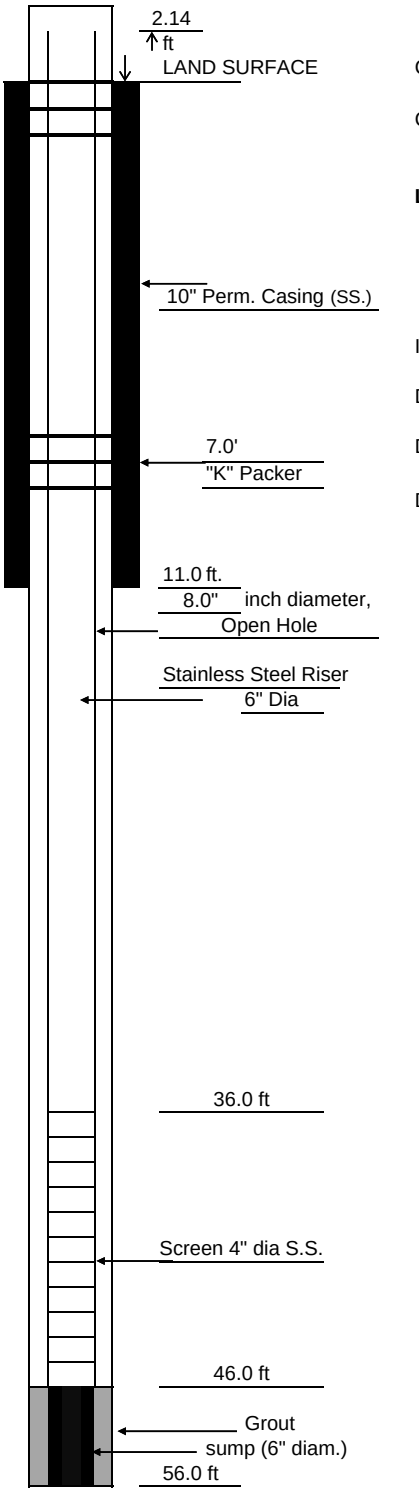
Depth To Bottom: 60.35 ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-14

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

686.15 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 05/31/13 - 05/31/13

Drilling Contractor Layne Christensen

Driller/License # Jason Gerwing

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

6/4/13 - During airlifing, RW-14 had ~10.0' of sediment. Heavy creosote impacts

Static Depth to Water 6.23 feet below M.P.

Water Removed During Development 50 gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	36.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

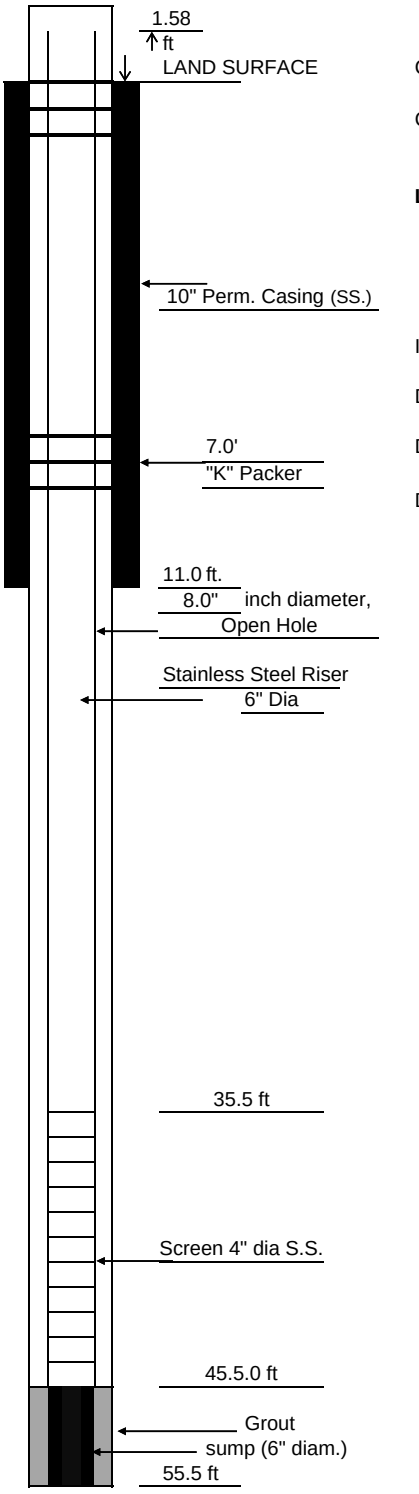
Depth To Bottom: 60.33 ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project: IN000072.0070.00001 Well: RW-15

City: Bloomington

County: Monroe State: IndiaN/A

Land-Surface Elevation and Datum:

689.16 feet [X] Surveyed [ ] Estimated

Installation Date(s): 06/03/13 - 06/04/13

Drilling Contractor: Layne Christensen

Driller/License #: Tom Delvick

Drilling Method: Mini Sonic

Drilling Fluid: Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

N/A

Static Depth to Water: 8.10 feet below M.P.

Water Removed During Development: -- gallons

Pumping Duration: -- minutes

Well Purpose: Monitoring/Recovery

Depth To Bottom (Post Development): -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	35.5'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

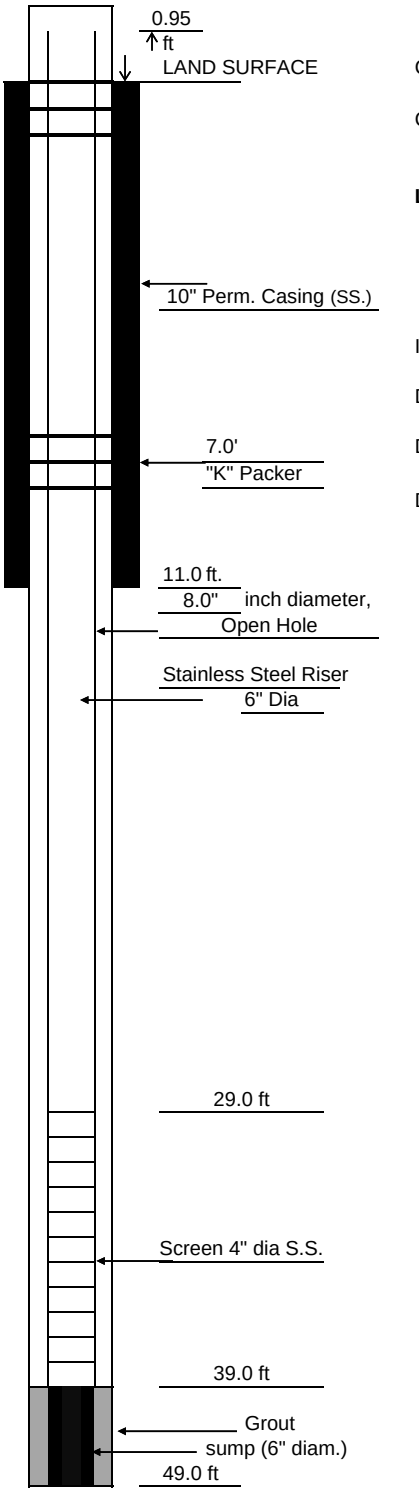
Depth To Bottom: 56.15 ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-16

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

688.47 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 06/05/13 - 06/07/13

Drilling Contractor Layne Christensen

Driller/License # Tom Delvick

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

6/8/13 - During airlifing, RW-16 had ~10.0' of sediment. (No evider of DNAPL)

Static Depth to Water -- feet below M.P.

Water Removed During Development 55 gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	29.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

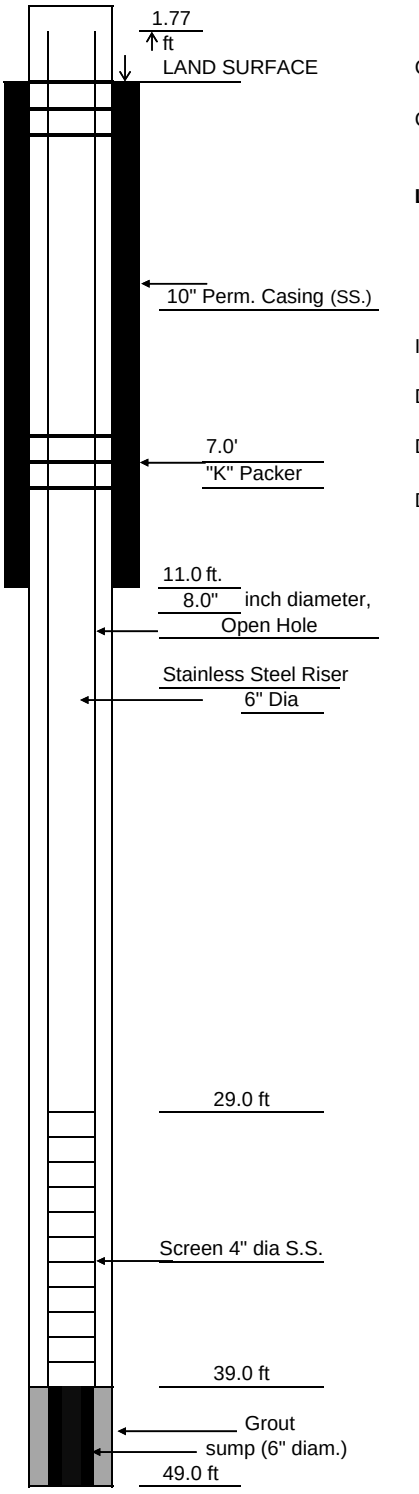
Depth To Bottom: N/M ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-17 (formerly MW-27A)

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

688.6 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 06/08/13 - 06/10/13

Drilling Contractor Layne Christensen

Driller/License # Tom Delvick

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

N/A

Static Depth to Water -- feet below M.P.

Water Removed During Development -- gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	29.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

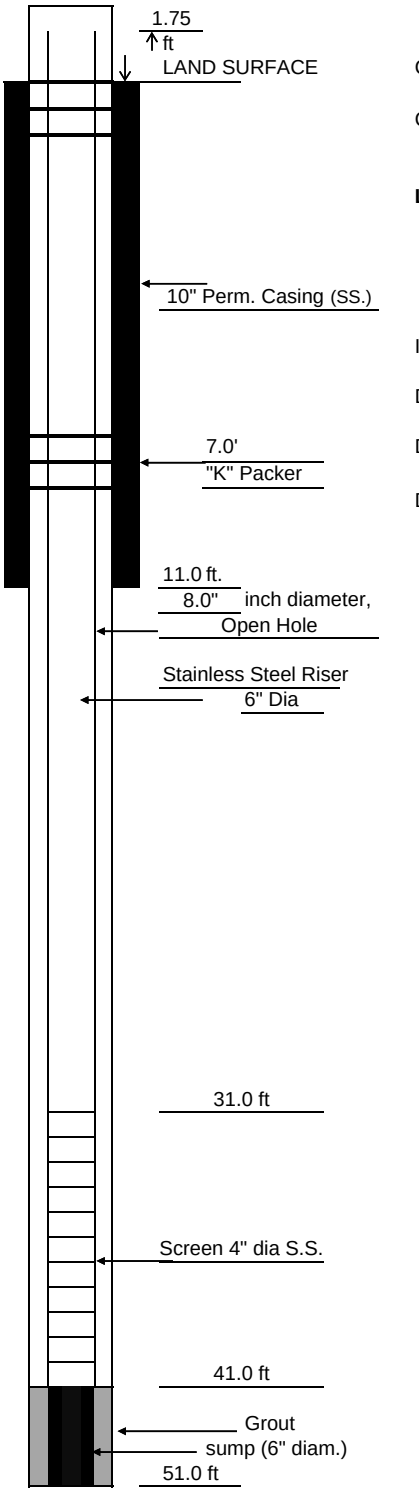
Depth To Bottom: N/M ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

* Depth Below Land Surface

Project IN000072.0070.00001 Well RW-18

City Bloomington

County Monroe State IndiaN/A

Land-Surface Elevation and Datum:

685.48 feet [X] Surveyed

[ ] Estimated

Installation Date(s) 06/11/13 - 06/11/13

Drilling Contractor Layne Christensen

Driller/License # Tom Delvick

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

N/A

Static Depth to Water -- feet below M.P.

Water Removed During Development -- gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:

Type	S.S.
Diameter	6.0"
Slot Size	0.010'
Joint Type	threaded
Top Blank	N/A
Bottom Sump	10.0'
Total Screen	10.0'
Total Length	N/A

Inner Well Casing:

Type	SS
Diameter	6.0"
Joint Type	N/A
Total Length	31.0'

Filter (Sand) Pack:

Type:	Quartz
Size:	#5

Bentonite Seal:

Type:	Chips
Size:	Medium

Guard Pipe:

Type	stick up
Diameter	10"
Total Length (If applicable)	N/A

Final Measurements:

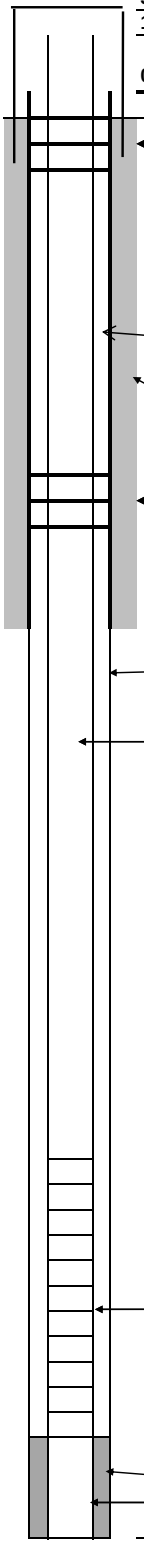
Depth To Bottom: N/M ft. below M.P.

Prepared by: Wesley Kuhn

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

ARCADIS

WELL CONSTRUCTION LOG- TELESCOPING



Project IN000072.0074.00010 Well RW-19

City Bloomington

County Monroe State Indiana

Land-Surface Elevation and Datum:

____ feet [X] Surveyed

[ ] Estimated

Installation Date(s) 10/19/15 - 10/23/15

Drilling Contractor Layne Christensen

Driller/License # Julius Coke

Drilling Method Mini Sonic

Drilling Fluid Water

Measurement Point (M.P.): Top of Casing

Development Date(s) and Technique(s)

N/A

Static Depth to Water -- feet below M.P.

Water Removed During Development -- gallons

Pumping Duration -- minutes

Well Purpose Monitoring/Recovery

Depth To Bottom (Post Development) -- ft. below M.P.

Screen:		**Filter (Sand) Pack:**	
Type	S.S.	Type:	NA
Diameter	6.0"	Size:	NA
Slot Size	0.010'	**Bentonite Seal:**	
Joint Type	threaded	Type:	NA
Top Blank	N/A	Size:	NA
Bottom Sump	10.0'		
Total Screen	10.0'	**Guard Pipe:**	
Total Length	N/A	Type	Stick-up
		Diameter	10"
Inner Well Casing:		Cap Type	Royer
Type	SS	(Lockable)	
Diameter	6.0"		
Joint Type	N/A	**Final Measurements:**	
Total Length		Depth To Bottom:	N/M ft. below M.P.

Prepared by: ____

Measuring Point is
Top of Well Casing
Unless Otherwise Noted.

Note: Measuring Point (M.P.) is Top of Casing (TOC) unless noted otherwise.

* Depth Below Land Surface

APPENDIX B

Groundwater Monitoring Laboratory Analytical Data (CD)

Southeast
ACCUTEST LABORATORIES

11/15/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F87415

Sampling Date: 11/01/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **30**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F87415

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F87415-1	11/01/11	00:00	EG	11/02/11	AQ	Trip Blank Water	TRIP BLANK
F87415-2	11/01/11	11:15	EG	11/02/11	AQ	Ground Water	MW-P3 (110111)
F87415-2F	11/01/11	11:15	EG	11/02/11	AQ	Groundwater Filtered	MW-P3 (110111)
F87415-3	11/01/11	11:45	EG	11/02/11	AQ	Ground Water	MW-P4 (110111)
F87415-3F	11/01/11	11:45	EG	11/02/11	AQ	Groundwater Filtered	MW-P4 (110111)
F87415-4	11/01/11	12:15	EG	11/02/11	AQ	Ground Water	MW-P5 (110111)
F87415-4F	11/01/11	12:15	EG	11/02/11	AQ	Groundwater Filtered	MW-P5 (110111)
F87415-5	11/01/11	00:00	EG	11/02/11	AQ	Ground Water	DUP-1 (110111)
F87415-5F	11/01/11	00:00	EG	11/02/11	AQ	Groundwater Filtered	DUP-1 (110111)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F87415

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 11/14/2011 8:23:37 AM

4 Sample(s) and 1 Trip Blank were collected on 11/01/2011 and were received at Accutest on 11/02/2011 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F87415. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2265

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87415-3MS, F87415-3MSD, F87415-3MSMSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2266

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87388-1MS, F87388-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39314

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87492-9MS, F87492-9MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 3&4-Methylphenol, Carbazole are outside control limits for sample OP39314-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP39314-MS have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39315

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87415-5MS, F87415-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) Matrix Spike Duplicate Recovery(s) for Pentachlorophenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample OP39315-MSD has surrogates outside control limits. Probable cause is due to matrix interference.

OP39315-MSD for 2,4,6-Tribromophenol: Outside control limits.

OP39315-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39315

F87415-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87415-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87415-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87415-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87415-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87415-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87415-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87415-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87415-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87415-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87415-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87415-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87415-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87415-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87415-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87415-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21665

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87385-1DUP, F87385-1MS, F87385-1MSD, F87385-1PS, F87385-1SDL, F87385-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP21665-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP21665-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP21667

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87423-4DUP, F87423-4MS, F87423-4MSD, F87423-4PS, F87423-4SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21667-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: November 14, 2011

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F87415-1	**Date Sampled:**	11/01/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055387.D	1	11/04/11	AH	n/a	n/a	VN2265
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P3 (110111)		
Lab Sample ID:	F87415-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055388.D	1	11/04/11	AH	n/a	n/a	VN2265
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P3 (110111)		
Lab Sample ID:	F87415-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021079.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P3 (110111)		
Lab Sample ID:	F87415-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061935.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0025	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P3 (110111)		
Lab Sample ID:	F87415-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21665

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P3 (110111)		
Lab Sample ID:	F87415-2F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-P4 (110111)
Lab Sample ID: F87415-3 **Date Sampled:** 11/01/11
Matrix: AQ - Ground Water **Date Received:** 11/02/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055389.D	1	11/04/11	AH	n/a	n/a	VN2265
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (110111)		
Lab Sample ID:	F87415-3	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021080.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (110111)		
Lab Sample ID:	F87415-3	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061936.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0025	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00019	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0027	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	0.0010	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	63% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (110111)		
Lab Sample ID:	F87415-3	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21665

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P4 (110111)		
Lab Sample ID:	F87415-3F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P5 (110111)		
Lab Sample ID:	F87415-4	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055407.D	1	11/07/11	AH	n/a	n/a	VN2266
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (110111)		
Lab Sample ID:	F87415-4	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021081.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (110111)
Lab Sample ID:	F87415-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	11/01/11
Date Received:	11/02/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061937.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (110111)		
Lab Sample ID:	F87415-4	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21665

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P5 (110111)		
Lab Sample ID:	F87415-4F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (110111)		
Lab Sample ID:	F87415-5	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055391.D	1	11/04/11	AH	n/a	n/a	VN2265
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (110111)		
Lab Sample ID:	F87415-5	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021082.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (110111)
Lab Sample ID: F87415-5 **Date Sampled:** 11/01/11
Matrix: AQ - Ground Water **Date Received:** 11/02/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061938.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (110111)		
Lab Sample ID:	F87415-5	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21665

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (110111)		
Lab Sample ID:	F87415-5F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F87415

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

COC # 1

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 3 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs/PAHs 8270 *	Total Metals 6010	Dissolved Metals ** 6010	COMMENTS	LAB USE
1	Trip Blank	2 VOAs	—	Lab	Supplied	—	—	—	X					
2	MW-P3 (110111)	7	11/1/11	1115	EG	N	G	GW		X	X	X		
3	MW-P4 (110111)	7		1145										
4	MW-P5 (110111)	6		1215										
5	DUP-1 (110111)	7	↓	—	↓	↓	↓	↓	↓	↓	↓	↓		

	Date Time:	Received By:	Date Time:
Relinquished By: Eric Gale	11/1/11 1500	Received By: FedEx	
Relinquished By: FX	11-2-11 0900	Received By: T. Willcox ARCADIS	11-2-11- 0900
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
* See Table for site specific COCs
** Lab filter & preserve dissolved metals

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.6

F87415: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F87415 CLIENT: Arcadis PROJECT: CSX

DATE/TIME RECEIVED: 11-2-11 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 4754

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [x] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES) #5 (LEAKING CAP)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Recieved only 1 1000 mL Amber (8270) For sample #4

TECHNICIAN SIGNATURE/DATE [signature] 11-2-11 REVIEWER SIGNATURE/DATE [signature] 11/2/11

NF 12/10

receipt confirmation 122910.xls

F87415: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

11/16/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F87416

Sampling Date: 11/01/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F87416

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F87416-1	11/01/11	00:00	EG	11/02/11	AQ	Trip Blank Water	TRIP BLANK
F87416-2	11/01/11	09:30	EG	11/02/11	AQ	Ground Water	OW-3 (110111)
F87416-2F	11/01/11	09:30	EG	11/02/11	AQ	Groundwater Filtered	OW-3 (110111)
F87416-3	11/01/11	09:50	EG	11/02/11	AQ	Ground Water	OW-2 (110111)
F87416-3F	11/01/11	09:50	EG	11/02/11	AQ	Groundwater Filtered	OW-2 (110111)
F87416-4	11/01/11	10:15	EG	11/02/11	AQ	Ground Water	OW-1 (110111)
F87416-4F	11/01/11	10:15	EG	11/02/11	AQ	Groundwater Filtered	OW-1 (110111)
F87416-5	11/01/11	10:45	EG	11/02/11	AQ	Ground Water	MW-P2 (110111)
F87416-5F	11/01/11	10:45	EG	11/02/11	AQ	Groundwater Filtered	MW-P2 (110111)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** F87416

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date** 11/15/2011 5:19:18 PM

4 Sample(s) and 1 Trip Blank were collected on 11/01/2011 and were received at Accutest on 11/02/2011 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F87416. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2267

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87416-2MS, F87416-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39314

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87492-9MS, F87492-9MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole are outside control limits. Probable cause due to matrix interference.Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 3&4-Methylphenol, Carbazole are outside control limits for sample OP39314-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP39314-MS have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39315

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87415-5MS, F87415-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for Pentachlorophenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP39315-MSD has surrogates outside control limits. Probable cause is due to matrix interference.

OP39315-MSD for 2,4,6-Tribromophenol: Outside control limits.

OP39315-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39315-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87416-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87416-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87416-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87416-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39315

F87416-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87416-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87416-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87416-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87416-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87416-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87416-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F87416-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87416-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F87416-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F87416-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F87416-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21667

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F87423-4DUP, F87423-4MS, F87423-4MSD, F87423-4PS, F87423-4SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21667-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: November 15, 2011

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F87416-1	**Date Sampled:**	11/01/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055440.D	1	11/08/11	AH	n/a	n/a	VN2267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (110111)		
Lab Sample ID:	F87416-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055442.D	1	11/08/11	AH	n/a	n/a	VN2267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (110111)
Lab Sample ID:	F87416-2
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	11/01/11
Date Received:	11/02/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021083.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (110111)		
Lab Sample ID:	F87416-2	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061939.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.0012	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.0015	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0017	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0011	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.0012	0.00019	mg/l	
218-01-9	Chrysene	0.0014	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.00023	0.00019	mg/l	
206-44-0	Fluoranthene	0.0019	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0014	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0039	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	0.0017	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	85% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (110111)		
Lab Sample ID:	F87416-2F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID: OW-2 (110111)
Lab Sample ID: F87416-3 **Date Sampled:** 11/01/11
Matrix: AQ - Ground Water **Date Received:** 11/02/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055443.D	1	11/08/11	AH	n/a	n/a	VN2267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (110111)		
Lab Sample ID:	F87416-3	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021084.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (110111)		
Lab Sample ID:	F87416-3	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061940.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (110111)		
Lab Sample ID:	F87416-3F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-1 (110111)		
Lab Sample ID:	F87416-4	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055444.D	1	11/08/11	AH	n/a	n/a	VN2267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-1 (110111)
Lab Sample ID: F87416-4 **Date Sampled:** 11/01/11
Matrix: AQ - Ground Water **Date Received:** 11/02/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021085.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0058	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0295	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1 (110111)		
Lab Sample ID:	F87416-4	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061941.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2	W062051.D	4	11/14/11	NAF	11/08/11	OP39315	SW3042

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0727 [a]	0.0038	mg/l	
208-96-8	Acenaphthylene	0.0015	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0024	0.00096	mg/l	
86-73-7	Fluorene	0.0184	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0123	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [b]	74% [b]	33-118%
4165-60-0	Nitrobenzene-d5	61% [b]	68% [b]	42-108%
321-60-8	2-Fluorobiphenyl	60% [b]	69% [b]	40-106%
1718-51-0	Terphenyl-d14	56% [b]	75% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1 (110111)		
Lab Sample ID:	F87416-4F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P2 (110111)		
Lab Sample ID:	F87416-5	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0055445.D	1	11/08/11	AH	n/a	n/a	VN2267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (110111)		
Lab Sample ID:	F87416-5	**Date Sampled:**	11/01/11
Matrix:	AQ - Ground Water	**Date Received:**	11/02/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021086.D	1	11/10/11	NAF	11/08/11	OP39314	SX1027
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (110111)
Lab Sample ID:	F87416-5
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	11/01/11
Date Received:	11/02/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W061942.D	1	11/09/11	MG	11/08/11	OP39315	SW3038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0017	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (110111)		
Lab Sample ID:	F87416-5F	**Date Sampled:**	11/01/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/02/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	11/07/11	11/07/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9348
(2) Prep QC Batch: MP21667

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F87416

COC # 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582g
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwiatanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6614

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, No hard copy
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other ____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 0 3 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	* SVOCs/PAHs 8270	Total Metals	Dissolved Metals **	COMMENTS	LAB USE
1	Trip Blank	2 VOAs	— Lab Supplied —						X					
2	OW-3 (110111)	7	11/1/11	0930	EG	N	G	GW	X	X	X	X		
3	OW-2 (110111)	↓	↓	0950	↓	↓	↓	↓	↓	↓	↓	↓		
4	OW-1 (110111)			1015										
5	MW-P2 (110111)			1045										

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Emily Jones	11/1/11 1500	Received By: FedEx		* See Table for site-specific COCs
Relinquished By: FedEx	11-2-11 0900	Received By: [signature] ALSE	11-2-11 0908	** Lab filter + preserve dissolved metals
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.8

F87416: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F87416 CLIENT: Arcadis PROJECT: CSX

DATE/TIME RECEIVED: 11-2-11 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7955 4149 4225

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: [signature] 11-2-11 REVIEWER SIGNATURE/DATE: [signature] 11/2/11

NF 12/10 receipt confirmation 122910.xls

F87416: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

12/14/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88167

Sampling Date: 11/29/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **25**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

CSX Transportation

Job No: F88167

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88167-1	11/29/11	00:00	EG	11/30/11	AQ	Trip Blank Water	TRIP BLANK
F88167-2	11/29/11	11:10	EG	11/30/11	AQ	Ground Water	MW-14S
F88167-2F	11/29/11	11:10	EG	11/30/11	AQ	Groundwater Filtered	MW-14S
F88167-3	11/29/11	11:45	EG	11/30/11	AQ	Ground Water	MW-2S
F88167-3F	11/29/11	11:45	EG	11/30/11	AQ	Groundwater Filtered	MW-2S
F88167-4	11/29/11	12:30	EG	11/30/11	AQ	Ground Water	MW-2D
F88167-4F	11/29/11	12:30	EG	11/30/11	AQ	Groundwater Filtered	MW-2D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88167

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 12/12/2011 1:22:25 PM

3 Sample(s) and 1 Trip Blank were collected on 11/29/2011 and were received at Accutest on 11/30/2011 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F88167. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ3785

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88053-1MS, F88053-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39620

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88169-2MS, F88169-2MSD were used as the QC samples indicated.
Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2-Methylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.
RPD(s) for MSD for Dibenzofuran are outside control limits for sample OP39620-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP39620-MS, OP39620-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP39620-MS/ MSD for Phenol-d5: Outside control limits.

OP39620-MS for Phenol: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39618

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88167-4MS, F88167-4MSD were used as the QC samples indicated.

OP39618-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88167-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88167-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88167-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88167-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39618

F88167-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88167-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88167-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88167-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88167-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88167-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88167-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88167-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21808

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88201-14FDUP, F88201-14FMS, F88201-14FMSD, F88201-14FPS, F88201-14FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21808-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: December 12, 2011

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88167-1	**Date Sampled:**	11/29/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J070705.D	1	12/01/11	MM	n/a	n/a	VJ3785
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	F88167-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J070706.D	1	12/01/11	MM	n/a	n/a	VJ3785
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-14S
Lab Sample ID: F88167-2 **Date Sampled:** 11/29/11
Matrix: AQ - Ground Water **Date Received:** 11/30/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021501.D	1	12/09/11	FS	12/02/11	OP39620	SX1048
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	F88167-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31448.D	1	12/05/11	MG	12/02/11	OP39618	SR1508
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	F88167-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14S		
Lab Sample ID:	F88167-2F	**Date Sampled:**	11/29/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	F88167-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J070707.D	1	12/01/11	MM	n/a	n/a	VJ3785
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S
Lab Sample ID:	F88167-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	11/29/11
Date Received:	11/30/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021502.D	1	12/09/11	FS	12/02/11	OP39620	SX1048
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	F88167-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31456.D	1	12/05/11	MG	12/02/11	OP39618	SR1508
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0057	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	0.00081	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00072	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0011	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00038	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00039	0.00019	mg/l	
218-01-9	Chrysene	0.00083	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0011	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00051	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	0.0010	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	F88167-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2S		
Lab Sample ID:	F88167-3F	**Date Sampled:**	11/29/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	F88167-4	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J070708.D	1	12/01/11	MM	n/a	n/a	VJ3785
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	F88167-4	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021503.D	1	12/09/11	FS	12/02/11	OP39620	SX1048
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	F88167-4	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31457.D	1	12/05/11	MG	12/02/11	OP39618	SR1508
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0040	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0073	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	F88167-4	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2D		
Lab Sample ID:	F88167-4F	**Date Sampled:**	11/29/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88167

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul Kurzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000872.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6580 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other _____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 site COCs only	Total Metals 6010 As+Pb	Dissolved Metals 6010 As+Pb	COMMENTS	LAB USE
1	Trip Blank	2 VOAs	—	Lab Supplied				—	X					
2	MW-14S	7	11/29/11	1110	EG	N	G	GW	X	X	X	X		
3	MW-2S	↓	↓	1145	↓	↓	↓	↓	↓	↓	↓	↓		
4	MW-2D	↓	↓	1230	↓	↓	↓	↓	↓	↓	↓	↓		

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Emily Zuber ARCADIS	11/29/11 1600	Fed Ex	
2	FX 11-30-11	930	[signature] ARCADIS	11-30-11 930
3	Relinquished By:	Date Time:	Received By:	Date Time:
	Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
*** Lab filter & preserve

Custody Seal #: #
LAB Log Number: #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.0

F88167: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88167 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 11-30-11 0930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8764 4728 4953

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR 0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R. Williams 11-30-11 REVIEWER SIGNATURE/DATE 11/30/11

NF 12/10

receipt confirmation 122910.xls

4.1 4

F88167: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

12/14/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88169

Sampling Date: 11/29/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88169

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88169-1	11/29/11	00:00	EG	11/30/11	AQ	Trip Blank Water	TRIP BLANK
F88169-2	11/29/11	13:15	EG	11/30/11	AQ	Ground Water	MW-14D
F88169-2F	11/29/11	13:15	EG	11/30/11	AQ	Groundwater Filtered	MW-14D
F88169-3	11/29/11	14:15	EG	11/30/11	AQ	Ground Water	MW-13
F88169-3F	11/29/11	14:15	EG	11/30/11	AQ	Groundwater Filtered	MW-13

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88169

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 12/12/2011 1:21:12 PM

2 Sample(s) and 1 Trip Blank were collected on 11/29/2011 and were received at Accutest on 11/30/2011 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F88169. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VB3275

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88248-4MS, F88248-4MSD were used as the QC samples indicated.

F88169-2: Dilution required due to matrix interference (non-target compounds above calibration range).

F88169-3: Dilution required due to matrix interference (non-target compounds above calibration range).

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39620

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F88169-2MS, F88169-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2-Methylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Dibenzofuran are outside control limits for sample OP39620-MSD. Probable cause due to sample non-homogeneity.

Sample(s) OP39620-MS, OP39620-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F88169-2: Dilution required due to matrix interference.

OP39620- MS/MSD for Phenol-d5: Outside control limits.

OP39620-MS for Phenol: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39618

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88167-4MS, F88167-4MSD were used as the QC samples indicated.

Sample(s) F88169-2, F88169-3 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39618-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39618-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39618

F88169-2: Dilution required due to matrix interference.

F88169-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88169-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F88169-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88169-2 for Terphenyl-d14: Outside control limits due to dilution.

F88169-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88169-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F88169-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88169-3 for Terphenyl-d14: Outside control limits due to dilution.

F88169-3: Dilution required due to matrix interference.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21808

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88201-14FDUP, F88201-14FMS, F88201-14FMSD, F88201-14FPS, F88201-14FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21808-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: December 12, 2011

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88169-1	**Date Sampled:**	11/29/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B079829.D	1	12/07/11	WV	n/a	n/a	VB3275
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	F88169-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B079830.D	20	12/07/11	WV	n/a	n/a	VB3275
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.10	mg/l	
108-88-3	Toluene	0.138	0.10	mg/l	
100-41-4	Ethylbenzene	0.103	0.10	mg/l	
1330-20-7	Xylene (total)	ND	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	F88169-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X021504.D	4	12/09/11	FS	12/02/11	OP39620	SX1048
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.367	0.019	mg/l	
95-48-7	2-Methylphenol	0.168	0.019	mg/l	
	3&4-Methylphenol	0.0816	0.019	mg/l	
108-95-2	Phenol	0.0515	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.322	0.019	mg/l	
132-64-9	Dibenzofuran	0.331	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	108%		42-108%
321-60-8	2-Fluorobiphenyl	85%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	F88169-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R31458.D	200	12/05/11	MG	12/02/11	OP39618	SR1508
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.471	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	0.274	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.711	0.19	mg/l	
91-20-3	Naphthalene	6.23	0.19	mg/l	
85-01-8	Phenanthrene	0.358	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	F88169-2	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14D		
Lab Sample ID:	F88169-2F	**Date Sampled:**	11/29/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F88169-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	B079831.D	1	12/07/11	WV	n/a	n/a	VB3275
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	0.0056	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0222	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0284	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F88169-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021507.D	1	12/09/11	FS	12/02/11	OP39620	SX1048
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0428	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0253	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	88%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F88169-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R31507.D	50	12/08/11	MG	12/02/11	OP39618	SR1510
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.0886	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0095	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	ND	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.048	mg/l	
91-20-3	Naphthalene	0.914	0.048	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F88169-3	**Date Sampled:**	11/29/11
Matrix:	AQ - Ground Water	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0226	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	F88169-3F	**Date Sampled:**	11/29/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	11/30/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/02/11	12/02/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9416
(2) Prep QC Batch: MP21808

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88169

COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☐ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☒ Other Deliv: Data CD only, no hard copy
- ☒ EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SHC COCs only	Total Metals As+Pb 6010	Dissolved Metals As+Pb*** 6010	COMMENTS	LAB USE
1	Trip Blank	2 VOAs	— Lab Supplied —			—		—	X					
2	MW-14D	7	11/29/11	1315	EG	N	G	GW	X	X	X	X		
3	MW-13	7	11/29/11	1415	EG	N	G	GW	X	X	X	X		

Relinquished By: Emily Zuhn/ARCADIS	Date Time: 11/29/11 1600	Received By: FedEx	Date Time:	Comments & Special Analytical Requirements:	
Relinquished By: FX	Date Time: 11/30/11 9:30	Received By: Scott Hall ALSE	Date Time: 11/30/11 9:30	** Lab Filter & Preserve	
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.6c — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88169: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88169 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 11/30/11 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8738 0557 7966

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM ____ 5-GRAM ____

NUMBER OF 5035 FIELD KITS ? ____

NUMBER OF LAB FILTERED METALS ? 2

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Scott Hill 11/30/11 REVIEWER SIGNATURE/DATE R. Williams 11-30-11

NF 12/10

receipt confirmation 122910.xls

4.1 4

F88169: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

12/28/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88629

Sampling Date: 12/12/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88629

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88629-1	12/12/11	00:00	EG	12/13/11	AQ	Trip Blank Water	TRIP BLANK
F88629-2	12/12/11	15:30	EG	12/13/11	AQ	Ground Water	MW-48B
F88629-2D	12/12/11	15:30	EG	12/13/11	AQ	Water Dup/MSD	MW-48B
F88629-2S	12/12/11	15:30	EG	12/13/11	AQ	Water Matrix Spike	MW-48B
F88629-3	12/12/11	00:00	EG	12/13/11	AQ	Ground Water	DUP-1 (121211)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88629

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 12/28/2011 9:46:50 AM

2 Sample(s) and 1 Trip Blank were collected on 12/12/2011 and were received at Accutest on 12/13/2011 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F88629. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VP178

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88629-2MS, F88629-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total), are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39838

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88629-2MS, F88629-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Sample(s) OP39838-MS1, OP39838-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

F88629-2: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39839

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88629-2MS, F88629-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Recovery(s) for Anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Matrix Spike Duplicate Recovery(s) for Anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Sample(s) F88629-2, F88629-3, OP39839-MS1, OP39839-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39839

OP39839-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP39839-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP39839-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP39839-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
OP39839-MS1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP39839-MS1 for Nitrobenzene-d5: Outside control limits due to dilution.
OP39839-MS1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP39839-MS1 for Terphenyl-d14: Outside control limits due to dilution.
OP39839-MSD1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP39839-MSD1 for Nitrobenzene-d5: Outside control limits due to dilution.
OP39839-MSD1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP39839-MSD1 for Terphenyl-d14: Outside control limits due to dilution.
F88629-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F88629-2 for Nitrobenzene-d5: Outside control limits due to dilution.
F88629-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F88629-2 for Terphenyl-d14: Outside control limits due to dilution.
F88629-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F88629-3 for Nitrobenzene-d5: Outside control limits due to dilution.
F88629-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F88629-3 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21936

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F88629-2DUP, F88629-2MS, F88629-2MSD, F88629-2PS, F88629-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: December 28, 2011
Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88629-1	**Date Sampled:**	12/12/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4462.D	1	12/16/11	DP	n/a	n/a	VP178
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	88%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B		
Lab Sample ID:	F88629-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4480.D	1	12/16/11	DP	n/a	n/a	VP178
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0348	0.0050	mg/l	
108-88-3	Toluene	0.0789	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0352	0.0050	mg/l	
1330-20-7	Xylene (total)	0.125	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B		
Lab Sample ID:	F88629-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U029325.D	4	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0696	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0741	0.019	mg/l	
132-64-9	Dibenzofuran	0.0543	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	87%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B		
Lab Sample ID:	F88629-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31799.D	80	12/23/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.076	mg/l	
83-32-9	Acenaphthene	ND	0.076	mg/l	
208-96-8	Acenaphthylene	ND	0.076	mg/l	
120-12-7	Anthracene	ND	0.076	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.015	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.015	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.015	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.015	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.015	mg/l	
218-01-9	Chrysene	ND	0.015	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.015	mg/l	
206-44-0	Fluoranthene	ND	0.076	mg/l	
86-73-7	Fluorene	ND	0.076	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.015	mg/l	
91-57-6	2-Methylnaphthalene	0.116	0.076	mg/l	
91-20-3	Naphthalene	1.87	0.076	mg/l	
85-01-8	Phenanthrene	ND	0.076	mg/l	
129-00-0	Pyrene	ND	0.076	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B		
Lab Sample ID:	F88629-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/21/11	12/21/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/21/11	12/21/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9466
(2) Prep QC Batch: MP21936

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (121211)		
Lab Sample ID:	F88629-3	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4481.D	1	12/16/11	DP	n/a	n/a	VP178
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0276	0.0050	mg/l	
108-88-3	Toluene	0.0631	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0272	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0985	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (121211)
Lab Sample ID: F88629-3 **Date Sampled:** 12/12/11
Matrix: AQ - Ground Water **Date Received:** 12/13/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029328.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0339	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0266	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0174	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	83%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121211)		
Lab Sample ID:	F88629-3	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31800.D	25	12/23/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.024	mg/l	
83-32-9	Acenaphthene	ND	0.024	mg/l	
208-96-8	Acenaphthylene	ND	0.024	mg/l	
120-12-7	Anthracene	ND	0.024	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	mg/l	
218-01-9	Chrysene	ND	0.0048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	mg/l	
206-44-0	Fluoranthene	ND	0.024	mg/l	
86-73-7	Fluorene	ND	0.024	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	mg/l	
91-57-6	2-Methylnaphthalene	0.0459	0.024	mg/l	
91-20-3	Naphthalene	0.911	0.024	mg/l	
85-01-8	Phenanthrene	ND	0.024	mg/l	
129-00-0	Pyrene	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121211)		
Lab Sample ID:	F88629-3	**Date Sampled:**	12/12/11
Matrix:	AQ - Ground Water	**Date Received:**	12/13/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/21/11	12/21/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/21/11	12/21/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9466
(2) Prep QC Batch: MP21936

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88629

COC #

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: ~~(317) 23~~ Bryant.Griggs@arcadis.com
Phone: (317) 231-6600
Fax: (317) 231-6519

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: Data CD only — No hard copy
- ☒ EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Notes ➡ 1 | 0 | 2
Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Site COCs)	Total Metals (As+Pb) 6010	COMMENTS	LAB USE
1	Trip Blank	2	—	Lab	Supplied	—	—		X				
2	MW-48B	21	12/12/11	1530	EG	N	G	GW	X	X	X	MS/MSD	
3	DUP-1 (121211)	7	12/12/11	—	EG	N	G	GW	X	X	X		

	Relinquished By:	Date/Time:	Received By:	Date/Time:
1	Jenny Gerber	12/12/11 1500	Fed Ex	
2	FX	12/13/11 9:30	Scott Hill ALSE	12/13/11 9:30
3				
Received By Laboratory:		Date/Time:	Lab Remarks:	

Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.8 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F88629: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88629 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 12/13/11 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 2144

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS ~~USED~~ LISTED ON COC
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [X] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: SAMPLE #3 COC ID: DUP-1 LABEL ID: DUP-2 (1 1000mL AMBER).
RECEIVED 6 CONTAINERS FOR SAMPLE #3 COC READS 7 CONTAINERS.
RECEIVED 18 CONTAINERS FOR SAMPLE #2 COC READS 21 CONTAINERS

TECHNICIAN SIGNATURE/DATE [signature] 12/13/11 REVIEWER SIGNATURE/DATE JC 12-13-11

NF 12/10

receipt confirmation 122910.xls

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F88629: Chain of Custody
Page 2 of 3

Table 1: Chemicals of Concern

	Yes	Closure Limits mg/L		mg/L Laboratory Run Detection Limit
Units		Industrial mg/L	Residential mg/L	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F88629: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

12/30/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88668

Sampling Date: 12/13/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **24**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F88668

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88668-1	12/13/11	00:00	EG	12/14/11	AQ	Trip Blank Water	TRIP BLANK
F88668-2	12/13/11	14:15	EG	12/14/11	AQ	Ground Water	MW-43A
F88668-2F	12/13/11	14:15	EG	12/14/11	AQ	Groundwater Filtered	MW-43A
F88668-3	12/13/11	14:50	EG	12/14/11	AQ	Ground Water	MW-32A
F88668-3D	12/13/11	14:50	EG	12/14/11	AQ	Water Dup/MSD	MW-32A
F88668-3S	12/13/11	14:50	EG	12/14/11	AQ	Water Matrix Spike	MW-32A
F88668-4	12/13/11	15:40	EG	12/14/11	AQ	Ground Water	MW-52A
F88668-4F	12/13/11	15:40	EG	12/14/11	AQ	Groundwater Filtered	MW-52A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** F88668

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date** 12/28/2011 7:37:35 PM

3 Sample(s), 1 Trip Blank were collected on 12/13/2011 and were received at Accutest on 12/14/2011 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F88668. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2301

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88668-3MS, F88668-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Matrix: AQ **Batch ID:** VZ117

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88779-1MS, F88779-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39838

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88668-3MS, F88668-3MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Sample(s) OP39838-MS2, OP39838-MSD2 have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39839

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88668-3MS, F88668-3MSD were used as the QC samples indicated.

OP39839-MB for 2-Fluorobiphenyl, Nitrobenzene-d5, 2,4,6-Tribromophenol, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88668-2 for 2-Fluorobiphenyl, Nitrobenzene-d5, 2,4,6-Tribromophenol, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88668-3 for 2-Fluorobiphenyl, Nitrobenzene-d5, 2,4,6-Tribromophenol, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88668-4 for 2-Fluorobiphenyl, Nitrobenzene-d5, 2,4,6-Tribromophenol, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21940

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88668-3DUP, F88668-3MS, F88668-3MSD, F88668-3PS, F88668-3SDL, F88668-3DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP21940-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21940-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: December 28, 2011

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88668-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2443.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A		
Lab Sample ID:	F88668-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2444.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0282	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A		
Lab Sample ID:	F88668-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029334.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	94%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-43A
Lab Sample ID: F88668-2 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31801.D	1	12/23/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0032	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0050	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	74% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A		
Lab Sample ID:	F88668-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21940

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-43A		
Lab Sample ID:	F88668-2F	**Date Sampled:**	12/13/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21940

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A		
Lab Sample ID:	F88668-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056227.D	1	12/17/11	AH	n/a	n/a	VN2301
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	117%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32A
Lab Sample ID: F88668-3 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029335.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32A
Lab Sample ID: F88668-3 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31802.D	1	12/23/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	65% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A		
Lab Sample ID:	F88668-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21940

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-52A
Lab Sample ID: F88668-4 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2445.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A		
Lab Sample ID:	F88668-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029338.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A
Lab Sample ID: F88668-4 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31803.D	1	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A		
Lab Sample ID:	F88668-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21940

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A		
Lab Sample ID:	F88668-4F	**Date Sampled:**	12/13/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21940

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88668

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415529
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwiatkowski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 500
City, State, Zip: Indianapolis IN 46204
Project #: IN000072.0001
PM: Bryant Gniss
Email: bryant.gniss@arcadis-us.com
Phone: 231-6500
Fax: 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

	Sample Identification	Containers Number & Type	Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM	TCLP Metals (1 each As + Sb)	Dissolved Metals (1 each As + Sb) **	COMMENTS	LAB USE
1	Trip Blank	—	Lab	Supplied	—	—	—	—	X					
2	MW-43A	7	12/13/11	1415	EG	N	G	GW		X	X	X		
3	MW-32A	18	12/13/11	1450	EG	N	G	GW					MS/MSD	
4	MW-52A	7	12/13/11	1540	EG	N	G	GW	↓	↓	↓	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Eric Dunn	12/13/11 1700	Received By: Fed Ex		** Lab filter & preserve dissolved metals
Relinquished By: FX	Date Time: 12/14/11 9:30	Received By: [signature] ALSE	Date Time: 12/14/11 9:30	See table 1 for site COCs
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

3.8c 3.6c

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F88668: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88668 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 12/14/11 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2 KSH

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6060 8994

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 2

NUMBER OF LAB FILTERED METALS ? 2

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.4 3.6
- [ ] CORRECTED TEMPS: 3.6 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Scott Hill 12/14/11 REVIEWER SIGNATURE/DATE R. Williams 12-14-11

NF 12/10

receipt confirmation 122910.xls

F88668: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

12/28/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88674

Sampling Date: 12/13/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **35**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88674

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88674-1	12/13/11	00:00	EG	12/14/11	AQ	Trip Blank Water	TRIP BLANK
F88674-2	12/13/11	00:00	EG	12/14/11	AQ	Ground Water	DUP-1 (121311)
F88674-3	12/13/11	09:15	EG	12/14/11	AQ	Ground Water	MW-38A
F88674-4	12/13/11	10:00	EG	12/14/11	AQ	Ground Water	MW-38C
F88674-4F	12/13/11	10:00	EG	12/14/11	AQ	Groundwater Filtered	MW-38C
F88674-5	12/13/11	11:35	EG	12/14/11	AQ	Ground Water	MW-41A
F88674-5F	12/13/11	11:35	EG	12/14/11	AQ	Groundwater Filtered	MW-41A
F88674-6	12/13/11	12:15	EG	12/14/11	AQ	Ground Water	MW-39B
F88674-6F	12/13/11	12:15	EG	12/14/11	AQ	Groundwater Filtered	MW-39B

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88674

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 12/28/2011 9:48:31 AM

5 Sample(s) and 1 Trip Blank were collected on 12/13/2011 and were received at Accutest on 12/14/2011 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F88674. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ112

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample F88674-2 has surrogates outside control limits. Probable cause is due to matrix interference.

Matrix: AQ **Batch ID:** VZ114

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88796-8MS, F88796-8MSD were used as the QC samples indicated.

Sample F88674-2 has surrogates outside control limits. Probable cause is due to matrix interference.

F88674-2 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: AQ **Batch ID:** VZ115

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88472-1MS, F88472-1MSD were used as the QC samples indicated.

Sample F88674-2 has surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39838

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88629-2MS, F88629-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Carbazole, Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Sample(s) OP39838-MS1, OP39838-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

F88674-2: Dilution required due to high PAH levels.

F88674-3: Dilution required due to high PAH levels.

F88674-2 for 2-Fluorophenol: Outside control limits due to dilution.

F88674-2 for Phenol-d5: Outside control limits due to dilution.

F88674-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-2 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39838

F88674-3 for 2-Fluorophenol: Outside control limits due to dilution.

F88674-3 for Phenol-d5: Outside control limits due to dilution.

F88674-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-3 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39839

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88629-2MS, F88629-2MSD were used as the QC samples indicated.
Matrix Spike Recovery(s) for Acenaphthylene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.
Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to BSP.
Matrix Spike Recovery(s) for Anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.
Matrix Spike Duplicate Recovery(s) for Anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.
Sample(s) F88629-2, F88629-3, OP39839-MS1, OP39839-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39839-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39839-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39839-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39839-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP39839-MS1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP39839-MS1 for Nitrobenzene-d5: Outside control limits due to dilution.

OP39839-MS1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP39839-MS1 for Terphenyl-d14: Outside control limits due to dilution.

OP39839-MSD1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP39839-MSD1 for Nitrobenzene-d5: Outside control limits due to dilution.

OP39839-MSD1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP39839-MSD1 for Terphenyl-d14: Outside control limits due to dilution.

F88674-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-2 for Terphenyl-d14: Outside control limits due to dilution.

F88674-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-3 for Terphenyl-d14: Outside control limits due to dilution.

F88674-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-4 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-4 for Terphenyl-d14: Outside control limits due to dilution.

F88674-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-5 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-5 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39839

F88674-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F88674-6 for Nitrobenzene-d5: Outside control limits due to dilution.

F88674-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F88674-6 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21938

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88706-1DUP, F88706-1MS, F88706-1MSD, F88706-1PS, F88706-1SDL, F88706-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP21938-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21938-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: December 28, 2011

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88674-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2350.D	1	12/19/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121311)		
Lab Sample ID:	F88674-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2391.D	1	12/20/11	KW	n/a	n/a	VZ114
Run #2	Z2422.D	5	12/21/11	KW	n/a	n/a	VZ115

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.106 [a]	0.025	mg/l	
108-88-3	Toluene	0.0189	0.0050	mg/l	
100-41-4	Ethylbenzene	0.102 [a]	0.025	mg/l	
1330-20-7	Xylene (total)	0.285	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	76-127%
2037-26-5	Toluene-D8	94%	98%	86-112%
460-00-4	4-Bromofluorobenzene	83% [b]	86%	84-120%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121311)		
Lab Sample ID:	F88674-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U029329.D	20	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.096	mg/l	
105-67-9	2,4-Dimethylphenol	0.124	0.096	mg/l	
95-48-7	2-Methylphenol	ND	0.096	mg/l	
	3&4-Methylphenol	ND	0.096	mg/l	
108-95-2	Phenol	ND	0.096	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.096	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.096	mg/l	
86-74-8	Carbazole	0.204	0.096	mg/l	
132-64-9	Dibenzofuran	0.115	0.096	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-62%
4165-62-2	Phenol-d5	0% [b]		10-40%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to high PAH levels.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121311)		
Lab Sample ID:	F88674-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31804.D	250	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.24	mg/l	
83-32-9	Acenaphthene	ND	0.24	mg/l	
208-96-8	Acenaphthylene	ND	0.24	mg/l	
120-12-7	Anthracene	ND	0.24	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.048	mg/l	
218-01-9	Chrysene	ND	0.048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.048	mg/l	
206-44-0	Fluoranthene	ND	0.24	mg/l	
86-73-7	Fluorene	ND	0.24	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.048	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.24	mg/l	
91-20-3	Naphthalene	6.76	0.24	mg/l	
85-01-8	Phenanthrene	ND	0.24	mg/l	
129-00-0	Pyrene	ND	0.24	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121311)		
Lab Sample ID:	F88674-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A		
Lab Sample ID:	F88674-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2392.D	1	12/20/11	KW	n/a	n/a	VZ114
Run #2	Z2423.D	5	12/21/11	KW	n/a	n/a	VZ115

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.111 [a]	0.025	mg/l	
108-88-3	Toluene	0.0204	0.0050	mg/l	
100-41-4	Ethylbenzene	0.118 [a]	0.025	mg/l	
1330-20-7	Xylene (total)	0.248 [a]	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	76-127%
2037-26-5	Toluene-D8	94%	98%	86-112%
460-00-4	4-Bromofluorobenzene	87%	85%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A		
Lab Sample ID:	F88674-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U029330.D	20	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.096	mg/l	
105-67-9	2,4-Dimethylphenol	0.127	0.096	mg/l	
95-48-7	2-Methylphenol	ND	0.096	mg/l	
	3&4-Methylphenol	ND	0.096	mg/l	
108-95-2	Phenol	ND	0.096	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.096	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.096	mg/l	
86-74-8	Carbazole	0.194	0.096	mg/l	
132-64-9	Dibenzofuran	0.108	0.096	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-62%
4165-62-2	Phenol-d5	0% [b]		10-40%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to high PAH levels.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A		
Lab Sample ID:	F88674-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31805.D	250	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.24	mg/l	
83-32-9	Acenaphthene	ND	0.24	mg/l	
208-96-8	Acenaphthylene	ND	0.24	mg/l	
120-12-7	Anthracene	ND	0.24	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.048	mg/l	
218-01-9	Chrysene	ND	0.048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.048	mg/l	
206-44-0	Fluoranthene	ND	0.24	mg/l	
86-73-7	Fluorene	ND	0.24	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.048	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.24	mg/l	
91-20-3	Naphthalene	6.25	0.24	mg/l	
85-01-8	Phenanthrene	ND	0.24	mg/l	
129-00-0	Pyrene	ND	0.24	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A		
Lab Sample ID:	F88674-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C		
Lab Sample ID:	F88674-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2362.D	1	12/20/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38C
Lab Sample ID: F88674-4 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029339.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C		
Lab Sample ID:	F88674-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31806.D	1	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0090	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C		
Lab Sample ID:	F88674-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C		
Lab Sample ID:	F88674-4F	**Date Sampled:**	12/13/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A		
Lab Sample ID:	F88674-5	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2363.D	1	12/20/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A
Lab Sample ID: F88674-5 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029340.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A		
Lab Sample ID:	F88674-5	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31807.D	1	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0078	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A		
Lab Sample ID:	F88674-5	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A		
Lab Sample ID:	F88674-5F	**Date Sampled:**	12/13/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B		
Lab Sample ID:	F88674-6	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2364.D	1	12/20/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B		
Lab Sample ID:	F88674-6	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029341.D	1	12/22/11	FS	12/19/11	OP39838	SU1389
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-39B
Lab Sample ID: F88674-6 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31808.D	1	12/24/11	MG	12/19/11	OP39839	SR1524
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0018	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	76% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B		
Lab Sample ID:	F88674-6	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B		
Lab Sample ID:	F88674-6F	**Date Sampled:**	12/13/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88674

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061 00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: Data CD only, no hard copy
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs only)	Total Metals As+Pb	Dissolved Metals 6010 As+Pb **	COMMENTS	LAB USE
1	Trip Blank	2	—	Lab	Supplied	—	—	—	X					
2	DUP-1 (12.13.11)	6	—	—	EG	N	G	GW		X	X	X		
3	MW-35A	6	12/13/11	915										
4	MW-38C	7		1000								X		
5	MW-41A	7		1135								X		
6	MW-39B	7		1215								X		

	Date Time		Date Time	
Relinquished By: Amy Shuee	12/13/11 1700	Received By: FedEx		Comments & Special Analytical Requirements: ** Lab filter & preserve dissolved metals. See attached table for site COCs
Relinquished By: FX	12-14-11	Received By: J Cooper (ASE)	09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: ☐ Yes ☐ No Custody Intact	Custody Seal # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.6 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F88674: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88674 CLIENT: ARCADIS PROJECT: 7415 829

DATE/TIME RECEIVED: 12-14-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 2133

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: JC 12-14-11 REVIEWER SIGNATURE/DATE: R Wilson 12-14-11

NF 12/10

receipt confirmation 122910.xls

4.1 4

F88674: Chain of Custody
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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

4

F88674: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

12/23/11



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88706

Sampling Date: 12/12/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **10**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

CSX Transportation

Job No: F88706

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88706-1	12/12/11	15:30	EG	12/15/11	AQ	Groundwater Filtered	MW-48B
F88706-2	12/12/11	00:00	EG	12/15/11	AQ	Groundwater Filtered	DUP-1 (121211)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88706

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 12/23/2011 3:00:16 PM

2 Sample(s) were collected on 12/12/2011 and were received at Accutest on 12/15/2011 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F88706. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21938

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88706-1DUP, F88706-1MS, F88706-1MSD, F88706-1PS, F88706-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP21938-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21938-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: December 23, 2011

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-48B		
Lab Sample ID:	F88706-1	**Date Sampled:**	12/12/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (121211)		
Lab Sample ID:	F88706-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/22/11	12/22/11	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9471
(2) Prep QC Batch: MP21938

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88706

with 12/12 chain

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION

Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION

Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kwiatkowski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION

Company: ARCADIS
Address: ~~Fort Pitt~~ 2511 City St Suite 500
City, State, Zip: Indpls, IN 46204
Project #: IN72.61.1
PM: Bryant Greggs
Email: Bryant.Greggs@arcadis-us.com
Phone: 317 2316500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: no hard copy, Data CD only
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 0
Pres. Code

METHODS FOR ANALYSIS

Dissolved Metals 6010 As + Pb *

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Dissolved Metals	COMMENTS	LAB USE
1	MW-48B	3	12/12/11	1530	EG	N	G	GW	X		
2	Dup-1 (12/12/11)	1	12/12/11	—	EG	N	G		X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Emily Hyman	12/13/11 1730	Received By: Fed Ex		** Lab filter & preserve dissolved metals
Relinquished By: FX	12/15/11 9:30	Received By: Scott Hill ALSE	Date Time: 12/15/11 9:30	Submit with report from 12/12/11 with Sauk Sample names
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

3.2c

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88706: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88706 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 12/15/11 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6063 4190

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE 12/15/11 REVIEWER SIGNATURE/DATE 12.15.11

NF 12/10

receipt confirmation 122910.xls

F88706: Chain of Custody

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Southeast ACCUTEST LABORATORIES

01/03/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88707

Sampling Date: 12/14/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88707

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88707-1	12/14/11	00:00	MW	12/15/11	AQ	Trip Blank Water	TRIP BLANK
F88707-2	12/14/11	10:53	MW	12/15/11	AQ	Ground Water	MW-40A
F88707-2F	12/14/11	10:53	MW	12/15/11	AQ	Groundwater Filtered	MW-40A
F88707-3	12/14/11	09:19	MW	12/15/11	AQ	Ground Water	MW-40B
F88707-3F	12/14/11	09:19	MW	12/15/11	AQ	Groundwater Filtered	MW-40B
F88707-4	12/14/11	09:55	MW	12/15/11	AQ	Ground Water	MW-40C
F88707-5	12/14/11	11:05	MW	12/15/11	AQ	Ground Water	MW-1D
F88707-6	12/14/11	11:20	MW	12/15/11	AQ	Ground Water	MW-9
F88707-6F	12/14/11	11:20	MW	12/15/11	AQ	Groundwater Filtered	MW-9

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88707

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/3/2012 1:32:29 PM

5 Sample(s), 1 Trip Blank were collected on 12/14/2011 and were received at Accutest on 12/15/2011 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F88707. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2303

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88707-2MS, F88707-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2310

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88864-21MS, F88864-21MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) OP39860-MS have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) F88707-5 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88707-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88707-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88707-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88707-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88707-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88707-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88707-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88707-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

F88707-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88707-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88707-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88707-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88707-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88707-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88707-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88707-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88707-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88707-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88707-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88707-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21953

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F88708-1DUP, F88708-1MS, F88708-1MSD, F88708-1PS, F88708-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 3, 2012
Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88707-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056292.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A		
Lab Sample ID:	F88707-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056296.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	114%		76-127%
2037-26-5	Toluene-D8	89%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A		
Lab Sample ID:	F88707-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029372.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A		
Lab Sample ID:	F88707-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000464.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A		
Lab Sample ID:	F88707-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0057	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A		
Lab Sample ID:	F88707-2F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B		
Lab Sample ID:	F88707-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056297.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B
Lab Sample ID:	F88707-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/14/11
Date Received:	12/15/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029373.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B		
Lab Sample ID:	F88707-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000465.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0076	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0019	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B		
Lab Sample ID:	F88707-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B		
Lab Sample ID:	F88707-3F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C		
Lab Sample ID:	F88707-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056298.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40C
Lab Sample ID: F88707-4 **Date Sampled:** 12/14/11
Matrix: AQ - Ground Water **Date Received:** 12/15/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029374.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C		
Lab Sample ID:	F88707-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000466.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0133	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	0.0010	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	0.00062	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00031	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00045	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00019	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00029	0.00019	mg/l	
218-01-9	Chrysene	0.00055	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0092	0.00097	mg/l	
86-73-7	Fluorene	0.0102	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00023	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	0.0036	0.00097	mg/l	
129-00-0	Pyrene	0.0051	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C		
Lab Sample ID:	F88707-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	F88707-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056490.D	1	12/27/11	RB	n/a	n/a	VN2310
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0238	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0212	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	F88707-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029375.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2	U029415.D	2	12/27/11	FS	12/20/11	OP39860	SU1393

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0381	0.0048	mg/l	
132-64-9	Dibenzofuran	0.136 [a]	0.0096	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%	42%	14-62%
4165-62-2	Phenol-d5	27%	29%	10-40%
118-79-6	2,4,6-Tribromophenol	78%	67%	33-118%
4165-60-0	Nitrobenzene-d5	81%	73%	42-108%
321-60-8	2-Fluorobiphenyl	69%	69%	40-106%
1718-51-0	Terphenyl-d14	98%	86%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D
Lab Sample ID:	F88707-5
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/14/11
Date Received:	12/15/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000467.D	20	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2	T000506.D	40	12/29/11	NAF	12/20/11	OP39861	ST31

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.312	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	0.0268	0.019	mg/l	
86-73-7	Fluorene	0.142	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0440	0.019	mg/l	
91-20-3	Naphthalene	0.760 [a]	0.038	mg/l	
85-01-8	Phenanthrene	0.0809	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D		
Lab Sample ID:	F88707-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F88707-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056299.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	116%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F88707-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029376.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F88707-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000468.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.00099	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	49% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F88707-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0070	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	F88707-6F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88707

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9418829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Krawinski
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio st STE 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@Arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6500

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: Data CD only — No hard copy
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note → Pres. Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010 (As+Pb)	Dissolved 6010 (As+Pb)	COMMENTS	LAB USE
										1	0	2	0		
1	TRIP Blank	2	—	Lab Supplied		—	—	—		X				Preserved on ICE	
2	MW-40A	7	12/14/11	10:53	MW	N	Grab	GW		X	X	X	X		
3	MW-40B	7	12/14/11	9:17	MW	N	grab	GW		X	X	X	X		
4	MW-40C	6	12/14/11	9:58	MW	N	grab	GW		X	X	X			
5	MW-1D	6	12/14/11	11:05	EG	N	grab	GW		X	X	X			
6	MW-9	7	12/14/11	11:20	EG	N	grab	GW		X	X	X	X		

	Date Time	Received By	Date Time
Relinquished By: MK Z	12/14/11 15:46	Received By:	12/14/11 1546
Relinquished By:	12/14/11 1600	Received By: FedEx	Date Time:
Relinquished By: FX	12-15-11	Received By: J Crane (ALS12)	Date Time: 09:30
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- Lab Filter + Preserved on ice
- See table 1 for site COCs

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.2c — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88707: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88707 CLIENT: Arcadis PROJECT: 94158.19

DATE/TIME RECEIVED: 12-15-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6063 4190

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: [signature] 12-15-11 REVIEWER SIGNATURE/DATE: [signature] 12-15-11

NF 12/10 receipt confirmation 122910.xls

F88707: Chain of Custody
Page 2 of 3

Table 1: Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibenzofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F88707: Chain of Custody

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Southeast
ACCUTEST LABORATORIES

01/03/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0030

Accutest Job Number: F88709

Sampling Date: 12/14/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **31**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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3.1: F88709-1: MW-29A 7
3.2: F88709-1F: MW-29A 11
3.3: F88709-2: MW-16S 12
3.4: F88709-2F: MW-16S 16
3.5: F88709-3: MW-12S 17
3.6: F88709-3F: MW-12S 21
3.7: F88709-4: TRIP BLANK 22
3.8: F88709-5: MW-26A 23
3.9: F88709-5F: MW-26A 27
Section 4: Misc. Forms **28**
4.1: Chain of Custody 29

Sample Summary

CSX Transportation

Job No: F88709

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88709-1	12/14/11	13:46	MW	12/15/11	AQ	Ground Water	MW-29A
F88709-1F	12/14/11	13:46	MW	12/15/11	AQ	Groundwater Filtered	MW-29A
F88709-2	12/14/11	14:06	MW	12/15/11	AQ	Ground Water	MW-16S
F88709-2F	12/14/11	14:06	MW	12/15/11	AQ	Groundwater Filtered	MW-16S
F88709-3	12/14/11	14:57	MW	12/15/11	AQ	Ground Water	MW-12S
F88709-3F	12/14/11	14:57	MW	12/15/11	AQ	Groundwater Filtered	MW-12S
F88709-4	12/14/11	00:00	MW	12/15/11	AQ	Trip Blank Water	TRIP BLANK
F88709-5	12/14/11	15:00	MW	12/15/11	AQ	Ground Water	MW-26A
F88709-5F	12/14/11	15:00	MW	12/15/11	AQ	Groundwater Filtered	MW-26A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88709

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/3/2012 11:51:24 AM

4 Sample(s), 1 Trip Blank were collected on 12/14/2011 and were received at Accutest on 12/15/2011 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F88709. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2303

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88707-2MS, F88707-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2304

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88551-2MS, F88551-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) OP39860-MS have surrogates outside control limits. Probable cause is due to matrix interference.

F88709-5: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

OP39861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Sample(s) F88709-5 have surrogates outside control limits. Probable cause is due to matrix interference.

F88709-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88709-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88709-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88709-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88709-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88709-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88709-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88709-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88709-5 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

F88709-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88709-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88709-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88709-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88709-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88709-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88709-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88709-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21953

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88708-1DUP, F88708-1MS, F88708-1MSD, F88708-1PS, F88708-1SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP21965

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2DUP, F88710-2MS, F88710-2MSD, F88710-2PS, F88710-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21965-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: January 3, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-29A		
Lab Sample ID:	F88709-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056288.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A		
Lab Sample ID:	F88709-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029377.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A		
Lab Sample ID:	F88709-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000469.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0065	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.00095	0.00095	mg/l	
86-73-7	Fluorene	0.0045	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0027	0.00095	mg/l	
91-20-3	Naphthalene	0.0110	0.00095	mg/l	
85-01-8	Phenanthrene	0.0026	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A		
Lab Sample ID:	F88709-1	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A		
Lab Sample ID:	F88709-1F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16S		
Lab Sample ID:	F88709-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056315.D	1	12/20/11	RB	n/a	n/a	VN2304
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		87-116%
17060-07-0	1,2-Dichloroethane-D4	118%		76-127%
2037-26-5	Toluene-D8	88%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-16S
Lab Sample ID: F88709-2 **Date Sampled:** 12/14/11
Matrix: AQ - Ground Water **Date Received:** 12/15/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029378.D	1	12/24/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0491	0.0048	mg/l	
132-64-9	Dibenzofuran	0.107	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	34%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	102%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S		
Lab Sample ID:	F88709-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000470.D	10	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0096	mg/l	
83-32-9	Acenaphthene	0.227	0.0096	mg/l	
208-96-8	Acenaphthylene	ND	0.0096	mg/l	
120-12-7	Anthracene	0.0122	0.0096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	0.0288	0.0096	mg/l	
86-73-7	Fluorene	0.128	0.0096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0096	mg/l	
91-20-3	Naphthalene	ND	0.0096	mg/l	
85-01-8	Phenanthrene	0.0334	0.0096	mg/l	
129-00-0	Pyrene	0.0143	0.0096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	99% [a]		33-118%
4165-60-0	Nitrobenzene-d5	78% [a]		42-108%
321-60-8	2-Fluorobiphenyl	77% [a]		40-106%
1718-51-0	Terphenyl-d14	92% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S		
Lab Sample ID:	F88709-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16S		
Lab Sample ID:	F88709-2F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12S		
Lab Sample ID:	F88709-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056289.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	89%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-12S
Lab Sample ID: F88709-3 **Date Sampled:** 12/14/11
Matrix: AQ - Ground Water **Date Received:** 12/15/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029379.D	1	12/24/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12S		
Lab Sample ID:	F88709-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000471.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12S		
Lab Sample ID:	F88709-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12S		
Lab Sample ID:	F88709-3F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88709-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056290.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A		
Lab Sample ID:	F88709-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056291.D	1	12/19/11	RB	n/a	n/a	VN2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0131	0.0050	mg/l	
108-88-3	Toluene	0.0275	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0085	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0287	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A		
Lab Sample ID:	F88709-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U029380.D	4	12/24/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0292	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0215	0.019	mg/l	
132-64-9	Dibenzofuran	0.0240	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	98%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A		
Lab Sample ID:	F88709-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000472.D	20	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0972	0.019	mg/l	
83-32-9	Acenaphthene	0.0500	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	0.0200	0.019	mg/l	
86-73-7	Fluorene	0.0351	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0227	0.019	mg/l	
91-20-3	Naphthalene	0.338	0.019	mg/l	
85-01-8	Phenanthrene	0.0435	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A		
Lab Sample ID:	F88709-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/23/11	12/23/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9475
(2) Prep QC Batch: MP21953

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-26A		
Lab Sample ID:	F88709-5F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F 88709

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwasnicki
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENVS3216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio ste suit 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@Arcadis-us.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: data CD only — no hard copy
- [x] EDD Required, Format: excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 D 2 D — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
1	MW-29A	7	12/14/11	13:46	MW	N	Grab	GW	X	X	X	X	Preserved on Ice	
2	MW-16S	7	12/14/11	14:06	MW	N	grab	GW	X	X	X	X		
3	MW-12S	7	12/14/11	14:57	MW	N	grab	GW	X	X	X	X		
4	Trip Blank	2		lab Supplied					X					
5	MW-26A	7	12/14/11	15:00	EG	N	grab	GW	X	X	X	X		

	Date Time	Received By	Date Time
Relinquished By:	12/14/11 15:45		12/14/11 1600
Relinquished By:	12/14/11 1630		Date Time:
Relinquished By: FX	12-15-11		Date Time: 09:30
Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
- Lab Filtered & Preserved on ice
- See table 1 For site COCs

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F88709: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88709 CLIENT: ARCADIS PROJECT: 9415829

DATE/TIME RECEIVED: 12-15-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 2122

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 12-15-11 REVIEWER SIGNATURE/DATE 12/15/11

NF 12/10

receipt confirmation 122910.xls

F88709: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1
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F88709: Chain of Custody
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Southeast ACCUTEST LABORATORIES

01/03/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88710

Sampling Date: 12/13/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F88710

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88710-1	12/13/11	00:00	MW	12/15/11	AQ	Trip Blank Water	TRIP BLANK
F88710-2	12/13/11	14:16	MW	12/15/11	AQ	Ground Water	MW-28C
F88710-2D	12/13/11	14:16	MW	12/15/11	AQ	Water Dup/MSD	MW-28C
F88710-2S	12/13/11	14:16	MW	12/15/11	AQ	Water Matrix Spike	MW-28C
F88710-3	12/13/11	15:20	MW	12/15/11	AQ	Ground Water	MW-28B

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88710

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/3/2012 1:52:05 PM

2 Sample(s), 1 Trip Blank were collected on 12/13/2011 and were received at Accutest on 12/15/2011 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F88710. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ112

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) OP39860-MS have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

OP39861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88710-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88710-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88710-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88710-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88710-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88710-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88710-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88710-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21965

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2DUP, F88710-2MS, F88710-2MSD, F88710-2PS, F88710-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21965-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 3, 2012

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88710-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2351.D	1	12/19/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C		
Lab Sample ID:	F88710-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2365.D	1	12/20/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C		
Lab Sample ID:	F88710-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029364.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C		
Lab Sample ID:	F88710-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000456.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	63% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C		
Lab Sample ID:	F88710-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28B		
Lab Sample ID:	F88710-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2366.D	1	12/20/11	KW	n/a	n/a	VZ112
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0847	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B		
Lab Sample ID:	F88710-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029367.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0412	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	102%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B		
Lab Sample ID:	F88710-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000459.D	4	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0038	mg/l	
83-32-9	Acenaphthene	0.0704	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.0038	mg/l	
120-12-7	Anthracene	ND	0.0038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00077	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00077	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00077	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00077	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00077	mg/l	
218-01-9	Chrysene	ND	0.00077	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00077	mg/l	
206-44-0	Fluoranthene	ND	0.0038	mg/l	
86-73-7	Fluorene	0.0218	0.0038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00077	mg/l	
91-57-6	2-Methylnaphthalene	0.0525	0.0038	mg/l	
91-20-3	Naphthalene	0.0047	0.0038	mg/l	
85-01-8	Phenanthrene	0.0118	0.0038	mg/l	
129-00-0	Pyrene	ND	0.0038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100% [a]		33-118%
4165-60-0	Nitrobenzene-d5	78% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	88% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B		
Lab Sample ID:	F88710-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88710

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941S829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kuprzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio st ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00061
PM: Bryant Griggs@ARCADIS-US.com
Email: Bryant.Griggs
Phone: 317-231-6580 Fax: 317-231-6500

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY NO HARD Copy
- [x] EDD Required, Format: EXCEL

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other _____

Note ➡ 1 0 2 0
Pres. Code

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010 (As+Pb)	Dissolved Cold (As+Pb)	COMMENTS	LAB USE
1	Trip Blank		[redacted]	Lab Supplied					X					
2	MW-28C	18	12/13/11	14:16	MW	N	Grab	GW	X	X	X		MS/MSD	
3	MW-28B	6	12/13/11	15:20	MW	N	Grab	GW	X	X	X			

PRESERVED ON ICE

	Date Time:	Received By:	Date Time:
Relinquished By:	12/13/2011 16:30		12/13/11 1632
Relinquished By:	12/13/11 1700	Fed EX	
Relinquished By: FX	12-15-11 0930		12-15-11 0930
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements:
- LAB FILTER + PRESERVED ON ICE
- SEE TABLE 1 FOR SITE COCs

LAB USE: [ ] Yes [ ] No Custody Intact
Custody Seal #
LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
2.8
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F88710: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88710 CLIENT: Arcadis PROJECT: INCreosote

DATE/TIME RECEIVED: 12-15-11 0930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6060 8972

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [✓] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [✓] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [✓] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2-6
- [ ] CORRECTED TEMPS: 2-8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE R Wilson 12-15-11 REVIEWER SIGNATURE/DATE [illegible] 12-15-11

NF 12/10

receipt confirmation 122910.xls

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F88710: Chain of Custody
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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F88710: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

01/04/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88719

Sampling Date: 12/14/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88719

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88719-1	12/14/11	00:00	AG	12/15/11	AQ	Trip Blank Water	TRIP BLANK
F88719-2	12/14/11	09:25	AG	12/15/11	AQ	Ground Water	MW-49A
F88719-2F	12/14/11	09:25	AG	12/15/11	AQ	Groundwater Filtered	MW-49A
F88719-3	12/14/11	09:55	AG	12/15/11	AQ	Ground Water	MW-49B
F88719-3F	12/14/11	09:55	AG	12/15/11	AQ	Groundwater Filtered	MW-49B
F88719-4	12/14/11	10:10	AG	12/15/11	AQ	Ground Water	MW-49C
F88719-4F	12/14/11	10:10	AG	12/15/11	AQ	Groundwater Filtered	MW-49C
F88719-5	12/14/11	13:50	AG	12/15/11	AQ	Ground Water	MW-47A
F88719-5F	12/14/11	13:50	AG	12/15/11	AQ	Groundwater Filtered	MW-47A
F88719-6	12/14/11	14:25	AG	12/15/11	AQ	Ground Water	MW-36A
F88719-6F	12/14/11	14:25	AG	12/15/11	AQ	Groundwater Filtered	MW-36A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88719

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/3/2012 2:27:09 PM

5 Sample(s), 1 Trip Blank were collected on 12/14/2011 and were received at Accutest on 12/15/2011 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F88719. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ117

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88779-1MS, F88779-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) OP39860-MS, OP39884-MS, OP39884-MSD have surrogates outside control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** OP39884

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP39860-MS, OP39884-MS, OP39884-MSD have surrogates outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

OP39861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88719-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88719-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88719-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88719-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

F88719-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88719-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88719-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88719-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP39885

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

OP39885-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88719-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88719-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88719-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88719-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88719-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88719-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88719-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88719-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88719-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88719-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88719-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88719-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21965

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2DUP, F88710-2MS, F88710-2MSD, F88710-2PS, F88710-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21965-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP21975

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88719-3FDUP, F88719-3FMS, F88719-3FMSD, F88719-3FPS, F88719-3FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 3, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK
Lab Sample ID:	F88719-1
Matrix:	AQ - Trip Blank Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/14/11
Date Received:	12/15/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2447.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A		
Lab Sample ID:	F88719-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2448.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A		
Lab Sample ID:	F88719-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029381.D	1	12/24/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	34%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	99%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A		
Lab Sample ID:	F88719-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000473.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A		
Lab Sample ID:	F88719-2	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49A		
Lab Sample ID:	F88719-2F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21975

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B		
Lab Sample ID:	F88719-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2449.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B		
Lab Sample ID:	F88719-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029382.D	1	12/24/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	106%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B		
Lab Sample ID:	F88719-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000474.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B		
Lab Sample ID:	F88719-3	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B		
Lab Sample ID:	F88719-3F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21975

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C		
Lab Sample ID:	F88719-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2450.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C		
Lab Sample ID:	F88719-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055382.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C		
Lab Sample ID:	F88719-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31817.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C		
Lab Sample ID:	F88719-4	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C		
Lab Sample ID:	F88719-4F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21975

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-47A		
Lab Sample ID:	F88719-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2451.D	1	12/21/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A		
Lab Sample ID:	F88719-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055383.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	101%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A		
Lab Sample ID:	F88719-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31818.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	76% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A		
Lab Sample ID:	F88719-5	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-47A		
Lab Sample ID:	F88719-5F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21975

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A		
Lab Sample ID:	F88719-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z2452.D	1	12/22/11	KW	n/a	n/a	VZ117
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	0.0120	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0122	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0338	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	84%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36A
Lab Sample ID: F88719-6 **Date Sampled:** 12/14/11
Matrix: AQ - Ground Water **Date Received:** 12/15/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055384.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0171	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0275	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	100%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A		
Lab Sample ID:	F88719-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31819.D	5	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2	W062964.D	10	12/27/11	MG	12/21/11	OP39885	SW3084

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0959	0.0049	mg/l	
83-32-9	Acenaphthene	0.0476	0.0049	mg/l	
208-96-8	Acenaphthylene	ND	0.0049	mg/l	
120-12-7	Anthracene	ND	0.0049	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00097	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00097	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00097	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00097	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00097	mg/l	
218-01-9	Chrysene	ND	0.00097	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00097	mg/l	
206-44-0	Fluoranthene	ND	0.0049	mg/l	
86-73-7	Fluorene	0.0207	0.0049	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00097	mg/l	
91-57-6	2-Methylnaphthalene	0.0455	0.0049	mg/l	
91-20-3	Naphthalene	0.166 [a]	0.0097	mg/l	
85-01-8	Phenanthrene	ND	0.0049	mg/l	
129-00-0	Pyrene	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [b]	71% [b]	33-118%
4165-60-0	Nitrobenzene-d5	74% [b]	78% [b]	42-108%
321-60-8	2-Fluorobiphenyl	75% [b]	77% [b]	40-106%
1718-51-0	Terphenyl-d14	92% [b]	91% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A		
Lab Sample ID:	F88719-6	**Date Sampled:**	12/14/11
Matrix:	AQ - Ground Water	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/27/11	12/27/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9479
(2) Prep QC Batch: MP21965

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A		
Lab Sample ID:	F88719-6F	**Date Sampled:**	12/14/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/15/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21975

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

COC # F88719

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317)234-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy!
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 Site COCs only	Total Metals As+Pb 6010 Gold	Dissolved Metals** 6010 As+Pb	COMMENTS	LAB USE
1	Trip Blank	2		Lab	Supplied	—	—		X					
2	MW-49A	7	12/14/11	925	EG	N	G	GW		X	X	X		
3	MW-49B	7		955										
4	MW-49C	7		1010										
5	MW-47A	7		1350										
6	MW-36A	7		1425										

Relinquished By: Cory Duce	Date Time: 12/14/11 1630	Received By: Fed Ex	Date Time:
Relinquished By: FX	Date Time: 12-15-11	Received By: J. Connor (ARCADIS)	Date Time: 09:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
** Lab Filter + preserve dissolved metals
See Table 1 for site COCs
Submit in stand-alone report

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.8

F88719: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88719 CLIENT: Arcadis PROJECT: 9415829

DATE/TIME RECEIVED: 12.15-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6063 4204

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

RECEIVED 1 VIAL (8260) BROKEN FOR SAMPLE #4

TECHNICIAN SIGNATURE/DATE JC 12-15-11 REVIEWER SIGNATURE/DATE 12/15/11

NF 12/10

receipt confirmation 122910.xls

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F88719: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F88719: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

01/03/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88724

Sampling Date: 12/13/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88724

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88724-1	12/13/11	09:30	MW	12/14/11	AQ	Ground Water	MW-38D
F88724-2	12/13/11	10:22	MW	12/14/11	AQ	Ground Water	MW-38B
F88724-3	12/13/11	11:32	MW	12/14/11	AQ	Ground Water	MW-42B
F88724-4	12/13/11	12:22	MW	12/14/11	AQ	Ground Water	MW-42A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88724

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/3/2012 12:13:19 PM

4 Sample(s) were collected on 12/13/2011 and were received at Accutest on 12/14/2011 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F88724. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ3803

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88571-12MS, F88571-12MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2304

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88551-2MS, F88551-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) OP39860-MS have surrogates outside control limits. Probable cause is due to matrix interference.

F88724-2: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88710-2MS, F88710-2MSD were used as the QC samples indicated.

Sample(s) F88724-2 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88724-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88724-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88724-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88724-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88724-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88724-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88724-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88724-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39861

F88724-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88724-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88724-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88724-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88724-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88724-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88724-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88724-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21972

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88713-3FDUP, F88713-3FMS, F88713-3FMSD, F88713-3FPS, F88713-3FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP21972-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: January 3, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-38D		
Lab Sample ID:	F88724-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0056324.D	1	12/20/11	RB	n/a	n/a	VN2304
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	88%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38D
Lab Sample ID: F88724-1 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029368.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D		
Lab Sample ID:	F88724-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000460.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0032	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	56% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D		
Lab Sample ID:	F88724-1	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21972

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B		
Lab Sample ID:	F88724-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J071069.D	1	12/19/11	AP	n/a	n/a	VJ3803
Run #2	N0056325.D	2	12/20/11	RB	n/a	n/a	VN2304

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.124 [a]	0.010	mg/l	
108-88-3	Toluene	0.0140	0.0050	mg/l	
100-41-4	Ethylbenzene	0.119 [a]	0.010	mg/l	
1330-20-7	Xylene (total)	0.283	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	108%	76-127%
2037-26-5	Toluene-D8	97%	89%	86-112%
460-00-4	4-Bromofluorobenzene	88%	98%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B		
Lab Sample ID:	F88724-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U029369.D	4	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.164	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.135	0.019	mg/l	
132-64-9	Dibenzofuran	0.0823	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	106%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B		
Lab Sample ID:	F88724-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000461.D	200	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	ND	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.208	0.19	mg/l	
91-20-3	Naphthalene	5.66	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B		
Lab Sample ID:	F88724-2	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21972

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B		
Lab Sample ID:	F88724-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J071070.D	1	12/19/11	AP	n/a	n/a	VJ3803
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42B
Lab Sample ID: F88724-3 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029370.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B		
Lab Sample ID:	F88724-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000462.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0032	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	49% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	53% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B		
Lab Sample ID:	F88724-3	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21972

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A		
Lab Sample ID:	F88724-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J071071.D	1	12/19/11	AP	n/a	n/a	VJ3803
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A
Lab Sample ID:	F88724-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/13/11
Date Received:	12/14/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U029371.D	1	12/23/11	FS	12/20/11	OP39860	SU1391
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A
Lab Sample ID: F88724-4 **Date Sampled:** 12/13/11
Matrix: AQ - Ground Water **Date Received:** 12/14/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000463.D	1	12/28/11	NAF	12/20/11	OP39861	ST29
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0016	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A		
Lab Sample ID:	F88724-4	**Date Sampled:**	12/13/11
Matrix:	AQ - Ground Water	**Date Received:**	12/14/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/28/11	12/28/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9485
(2) Prep QC Batch: MP21972

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88724

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
CSXT Project Name: IN/CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. OHIO ST., STE. 800
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0061.00001
PM: BRYANT GRIGGS
Email: BRYANT.GRIGGS@ARCADIS-US.COM
Phone: 317-231-6500
Fax: 317-231-6500

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD Only, NO Hard Copy
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

#	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs (SITE COCs only) 8270	TOTAL METALS 6010 (As + Pb)	DISSOLVED METALS 6010 (As + Pb)	COMMENTS	LAB USE
1	TRIP Blank	2	12/13/2011	lab	Supplied				X				PRESERVES ON ICE	
2	MW-38D	6	12/13/2011	9:30	MW	N	grab	GW	X	X	X			
3	MW-38B	6	12/13/2011	10:22	MW	N	grab	GW	X	X	X			
4	MW-42B	6	12/13/2011	11:32	MW	N	grab	GW	X	X	X			
5	MW-42A	6	12/13/2011	12:22	MW	N	grab	GW	X	X	X			

	Date Time:	Received By:	Date Time:
Relinquished By: Mike Fitzpatrick	12/13/2011 13:26	Jenny Stone	12/13/11 1326
Relinquished By: Jenny Stone	12/13/2011 1700	FedEx	Date Time:
Relinquished By: FedEx	12-14-11	Courier (ALS)	Date Time: 09:30
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- LAB FILTER + PRESERVE DISSOLVED METALS.
- SEE TABLE 1 FOR SITE COCs.

Custody Seal # #
LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.6
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88724: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88724 CLIENT: ANADIS PROJECT: 7415819

DATE/TIME RECEIVED: 12-14-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 0060 8783

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [X] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: VIALS ABERRUAD FOR TB

TECHNICIAN SIGNATURE/DATE JC 12-14-11 REVIEWER SIGNATURE/DATE [signature] 12/14/11

NF 12/10 receipt confirmation 122910.xls

4.1 4

F88724: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibenzofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F88724: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

01/04/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88754

Sampling Date: 12/15/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88754

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88754-1	12/15/11	00:00	AG	12/16/11	AQ	Trip Blank Water	TRIP BLANK
F88754-2	12/15/11	10:20	AG	12/16/11	AQ	Ground Water	MW-45A
F88754-2F	12/15/11	10:20	AG	12/16/11	AQ	Groundwater Filtered	MW-45A
F88754-3	12/15/11	09:55	AG	12/16/11	AQ	Ground Water	MW-45B
F88754-3F	12/15/11	09:55	AG	12/16/11	AQ	Groundwater Filtered	MW-45B
F88754-4	12/15/11	09:30	AG	12/16/11	AQ	Ground Water	MW-45C
F88754-4F	12/15/11	09:30	AG	12/16/11	AQ	Groundwater Filtered	MW-45C
F88754-5	12/15/11	14:50	AG	12/16/11	AQ	Ground Water	MW-51B
F88754-5F	12/15/11	14:50	AG	12/16/11	AQ	Groundwater Filtered	MW-51B
F88754-6	12/15/11	15:50	AG	12/16/11	AQ	Ground Water	MW-46A
F88754-6F	12/15/11	15:50	AG	12/16/11	AQ	Groundwater Filtered	MW-46A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88754

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/4/2012 11:04:37 AM

5 Sample(s), 1 Trip Blank were collected on 12/15/2011 and were received at Accutest on 12/16/2011 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F88754. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3324

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

F88754-4: Dilution required due to matrix interference (non-target compounds above calibration range).

F88754-6: Dilution required due to matrix interference (non-target compounds above calibration range).

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39884

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP.

Sample(s) OP39884-MS, OP39884-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F88754-6: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Sample(s) F88754-4, F88754-5, F88754-6 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39885-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

F88754-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21980

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88741-1FDUP, F88741-1FMS, F88741-1FMSD, F88741-1FPS, F88741-1FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 4, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88754-1	**Date Sampled:**	12/15/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083645.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A		
Lab Sample ID:	F88754-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083646.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A		
Lab Sample ID:	F88754-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055385.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	98%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A		
Lab Sample ID:	F88754-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31820.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	76% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A		
Lab Sample ID:	F88754-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A		
Lab Sample ID:	F88754-2F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B		
Lab Sample ID:	F88754-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083649.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B
Lab Sample ID:	F88754-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/15/11
Date Received:	12/16/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055386.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B		
Lab Sample ID:	F88754-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31821.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0013	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	74% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B		
Lab Sample ID:	F88754-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0063	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B		
Lab Sample ID:	F88754-3F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C		
Lab Sample ID:	F88754-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C083650.D	2	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.010	mg/l	
108-88-3	Toluene	ND	0.010	mg/l	
100-41-4	Ethylbenzene	0.0173	0.010	mg/l	
1330-20-7	Xylene (total)	ND	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45C
Lab Sample ID: F88754-4 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055387.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0740	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0688	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45C
Lab Sample ID: F88754-4 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31822.D	16	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2	W062965.D	40	12/27/11	MG	12/21/11	OP39885	SW3084

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.015	mg/l	
83-32-9	Acenaphthene	0.128	0.015	mg/l	
208-96-8	Acenaphthylene	ND	0.015	mg/l	
120-12-7	Anthracene	ND	0.015	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0031	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0031	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0031	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0031	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0031	mg/l	
218-01-9	Chrysene	ND	0.0031	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0031	mg/l	
206-44-0	Fluoranthene	ND	0.015	mg/l	
86-73-7	Fluorene	0.0633	0.015	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0031	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.015	mg/l	
91-20-3	Naphthalene	0.858 [a]	0.038	mg/l	
85-01-8	Phenanthrene	0.0391	0.015	mg/l	
129-00-0	Pyrene	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	75% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	73% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	87% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C		
Lab Sample ID:	F88754-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C		
Lab Sample ID:	F88754-4F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B		
Lab Sample ID:	F88754-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083651.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B		
Lab Sample ID:	F88754-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055388.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0062	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0147	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B
Lab Sample ID: F88754-5 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31823.D	4	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2	W062966.D	10	12/27/11	MG	12/21/11	OP39885	SW3084

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0038	mg/l	
83-32-9	Acenaphthene	0.0236	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.0038	mg/l	
120-12-7	Anthracene	ND	0.0038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00076	mg/l	
86-74-8	Carbazole	0.0056	0.0038	mg/l	
218-01-9	Chrysene	ND	0.00076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00076	mg/l	
132-64-9	Dibenzofuran	0.0131	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.0038	mg/l	
86-73-7	Fluorene	0.0158	0.0038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00076	mg/l	
90-12-0	1-Methylnaphthalene	0.0156	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0241	0.0038	mg/l	
91-20-3	Naphthalene	0.125 [a]	0.0095	mg/l	
85-01-8	Phenanthrene	0.0156	0.0038	mg/l	
129-00-0	Pyrene	ND	0.0038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [c]	309% [b]	33-118%
4165-60-0	Nitrobenzene-d5	70% [c]	368% [b]	42-108%
321-60-8	2-Fluorobiphenyl	71% [c]	369% [b]	40-106%
1718-51-0	Terphenyl-d14	84% [c]	394% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B		
Lab Sample ID:	F88754-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B		
Lab Sample ID:	F88754-5F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A		
Lab Sample ID:	F88754-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C083652.D	2	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0770	0.010	mg/l	
108-88-3	Toluene	0.0605	0.010	mg/l	
100-41-4	Ethylbenzene	0.0373	0.010	mg/l	
1330-20-7	Xylene (total)	0.121	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A		
Lab Sample ID:	F88754-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L055389.D	4	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0506	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	ND	0.019	mg/l	
132-64-9	Dibenzofuran	ND	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-46A
Lab Sample ID: F88754-6 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31824.D	16	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2	W062967.D	40	12/27/11	MG	12/21/11	OP39885	SW3084

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.015	mg/l	
83-32-9	Acenaphthene	0.0239	0.015	mg/l	
208-96-8	Acenaphthylene	ND	0.015	mg/l	
120-12-7	Anthracene	ND	0.015	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0031	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0031	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0031	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0031	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0031	mg/l	
86-74-8	Carbazole	0.0179	0.015	mg/l	
218-01-9	Chrysene	ND	0.0031	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0031	mg/l	
132-64-9	Dibenzofuran	ND	0.015	mg/l	
206-44-0	Fluoranthene	ND	0.015	mg/l	
86-73-7	Fluorene	ND	0.015	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0031	mg/l	
90-12-0	1-Methylnaphthalene	0.0238	0.015	mg/l	
91-57-6	2-Methylnaphthalene	0.0346	0.015	mg/l	
91-20-3	Naphthalene	0.493 [a]	0.038	mg/l	
85-01-8	Phenanthrene	ND	0.015	mg/l	
129-00-0	Pyrene	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	65% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	65% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	82% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A		
Lab Sample ID:	F88754-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A		
Lab Sample ID:	F88754-6F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21980

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88754

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 site COCs only	Total Metals 6010 TCLP	Dissolved Metals 6010 TCLP**	COMMENTS	LAB USE
1	Trip Blank	2 / 4	—	Lab	Supplied	—								
2	MW-45A		12/15/11	1020	EG	N	G	GW						
3	MW-45B			955										
4	MW-45C			930										
5	MW-51B			1450										
6	MW-46A			1550										

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Tony Shuler	12/15/11 1715	Fed Ex		** Lab filter & preserve diss. metals
Relinquished By: FF	12-16-11	J. Boone (ALS)	10:30	See table for site COCs
Relinquished By:	Date Time:	Received By:	Date Time:	submit in stand alone report
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F88754: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88754 CLIENT: ARCADIS PROJECT: 9415 829

DATE/TIME RECEIVED: 12-16-11 10:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6066 9047

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: NO ANALYSIS REQUESTED FOR ALL SAMPLES

TECHNICIAN SIGNATURE/DATE: [signature] 12-16-11 REVIEWER SIGNATURE/DATE: [signature] 12/16/11

NF 12/10

receipt confirmation 122910.xls

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F88754: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

01/04/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F88760

Sampling Date: 12/15/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

CSX Transportation

Job No: F88760

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88760-1	12/15/11	00:00	MV	12/16/11	AQ	Trip Blank Water	TRIP BLANK
F88760-2	12/15/11	10:51	MV	12/16/11	AQ	Ground Water	MW-50A
F88760-3	12/15/11	00:00	MV	12/16/11	AQ	Ground Water	DUP-1
F88760-3F	12/15/11	00:00	MV	12/16/11	AQ	Groundwater Filtered	DUP-1
F88760-4	12/15/11	11:20	MV	12/16/11	AQ	Ground Water	MW-50B
F88760-4F	12/15/11	11:20	MV	12/16/11	AQ	Groundwater Filtered	MW-50B
F88760-5	12/15/11	09:38	MV	12/16/11	AQ	Ground Water	MW-28A
F88760-6	12/15/11	15:51	MV	12/16/11	AQ	Ground Water	MW-34A
F88760-6F	12/15/11	15:51	MV	12/16/11	AQ	Groundwater Filtered	MW-34A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88760

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/4/2012 11:06:04 AM

5 Sample(s), 1 Trip Blank were collected on 12/15/2011 and were received at Accutest on 12/16/2011 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F88760. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3324

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

F88760-6: Dilution required due to matrix interference (non-target compounds above calibration range).

Matrix: AQ **Batch ID:** VC3325

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88713-10MS, F88713-10MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39884

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to BSP

Sample(s) OP39884-MS, OP39884-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F88760-6: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Sample(s) F88760-6 have surrogates outside control limits. Probable cause is due to matrix interference.

OP39885-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

F88754-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88754-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88754-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88754-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88754-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21984

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2DUP, F88763-2MS, F88763-2MSD, F88763-2PS, F88763-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP21984-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP21984-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 4, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88760-1	**Date Sampled:**	12/15/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083653.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A		
Lab Sample ID:	F88760-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083656.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A		
Lab Sample ID:	F88760-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055390.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	52%		33-118%
4165-60-0	Nitrobenzene-d5	49%		42-108%
321-60-8	2-Fluorobiphenyl	50%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50A
Lab Sample ID: F88760-2 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31825.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	51% [a]		33-118%
4165-60-0	Nitrobenzene-d5	43% [a]		42-108%
321-60-8	2-Fluorobiphenyl	47% [a]		40-106%
1718-51-0	Terphenyl-d14	58% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A		
Lab Sample ID:	F88760-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F88760-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083674.D	1	12/27/11	WV	n/a	n/a	VC3325
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1
Lab Sample ID: F88760-3 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055391.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F88760-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31826.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F88760-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	F88760-3F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B		
Lab Sample ID:	F88760-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083658.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B		
Lab Sample ID:	F88760-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055392.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	94%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B		
Lab Sample ID:	F88760-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31827.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	73% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B		
Lab Sample ID:	F88760-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B		
Lab Sample ID:	F88760-4F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A		
Lab Sample ID:	F88760-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083659.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A		
Lab Sample ID:	F88760-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055393.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	100%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28A
Lab Sample ID: F88760-5 **Date Sampled:** 12/15/11
Matrix: AQ - Ground Water **Date Received:** 12/16/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31828.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	79% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A		
Lab Sample ID:	F88760-5	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A		
Lab Sample ID:	F88760-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	C083660.D	2	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0696	0.010	mg/l	
108-88-3	Toluene	0.0231	0.010	mg/l	
100-41-4	Ethylbenzene	0.0529	0.010	mg/l	
1330-20-7	Xylene (total)	0.124	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A		
Lab Sample ID:	F88760-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L055394.D	4	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	0.118	0.020	mg/l	
95-48-7	2-Methylphenol	ND	0.020	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.0646	0.020	mg/l	
132-64-9	Dibenzofuran	0.0370	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A
Lab Sample ID:	F88760-6
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/15/11
Date Received:	12/16/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31829.D	40	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2	W062968.D	100	12/27/11	MG	12/21/11	OP39885	SW3084

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.039	mg/l	
83-32-9	Acenaphthene	0.0626	0.039	mg/l	
208-96-8	Acenaphthylene	ND	0.039	mg/l	
120-12-7	Anthracene	ND	0.039	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0078	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0078	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0078	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0078	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0078	mg/l	
218-01-9	Chrysene	ND	0.0078	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0078	mg/l	
206-44-0	Fluoranthene	ND	0.039	mg/l	
86-73-7	Fluorene	ND	0.039	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0078	mg/l	
91-57-6	2-Methylnaphthalene	0.122	0.039	mg/l	
91-20-3	Naphthalene	2.53 [a]	0.098	mg/l	
85-01-8	Phenanthrene	ND	0.039	mg/l	
129-00-0	Pyrene	ND	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	77% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	74% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	89% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A		
Lab Sample ID:	F88760-6	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0128	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0061	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A		
Lab Sample ID:	F88760-6F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88760

COC #

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurszewski
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 25' E. Ohio st STE 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000672.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@Arcadis-us.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [X] Other Deliv: data Only — no hard copy
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270	Total Metals Calc (As+Pb)	Dissolved Calc (As+Pb)	COMMENTS	LAB USE
1	TRIP Blank	2	lab	Supplied					X				Preserved on Ice	
2	MW-50A	6	12/15/11	10:51	MW	N	grab	GW	X	X	X	X		
3	DUP-1	7	12/15/11	—	MW	N	grab	GW	X	X	X	X		
4	MW-50B	7	12/15/11	11:20	MW	N	Grab	GW	X	X	X	X		
5	MW-28A	6	12/15/11	9:38	MW	N	grab	GW	X	X	X	X		
6	MW-34A	7	12/15/11	15:51	MW	N	grab	GW	X	X	X	X		

	Date Time	Received By	Date Time
Relinquished By:	12/15/11 17:07	Received By:	12/15/11 1707
Relinquished By:	12/15/11 1715	Received By: FedEx	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
- Lab Filtered + Preserved on Ice
- See Table 1 For site COCs

LAB USE: Custody Intact — [ ] Yes [ ] No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

3.6

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88760: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88760 CLIENT: ARCADIS PROJECT: ~~F88760~~ F891 IN CREOSOTE

DATE/TIME RECEIVED: 12/16/11 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 2111

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID # 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED ONLY 2 40 mL VIALS (8260) FOR SAMPLE #3 (DUP-1).

TECHNICIAN SIGNATURE/DATE Scott Hill 12/16/11 REVIEWER SIGNATURE/DATE 12/16/11

NF 12/10

receipt confirmation 122910.xls

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F88760: Chain of Custody

Page 2 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibenzofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

4

F88760: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

01/05/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F88763

Sampling Date: 12/15/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **25**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

CSX Transportation

Job No: F88763

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88763-1	12/15/11	00:00	EG	12/16/11	AQ	Trip Blank Water	TRIP BLANK
F88763-2	12/15/11	13:00	EG	12/16/11	AQ	Ground Water	MW-53A
F88763-2D	12/15/11	13:00	EG	12/16/11	AQ	Water Dup/MSD	MW-53A
F88763-2F	12/15/11	13:00	EG	12/16/11	AQ	Groundwater Filtered	MW-53A
F88763-2FD	12/15/11	13:00	EG	12/16/11	AQ	Water Dup/MSD	MW-53A
F88763-2FS	12/15/11	13:00	EG	12/16/11	AQ	Water Matrix Spike	MW-53A
F88763-2S	12/15/11	13:00	EG	12/16/11	AQ	Water Matrix Spike	MW-53A
F88763-3	12/15/11	11:25	EG	12/16/11	AQ	Ground Water	MW-53B
F88763-3F	12/15/11	11:25	EG	12/16/11	AQ	Groundwater Filtered	MW-53B
F88763-4	12/15/11	00:00	EG	12/16/11	AQ	Ground Water	DUP-2(121511)
F88763-4F	12/15/11	00:00	EG	12/16/11	AQ	Groundwater Filtered	DUP-2(121511)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88763

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/5/2012 9:25:47 AM

3 Sample(s), 1 Trip Blank were collected on 12/15/2011 and were received at Accutest on 12/16/2011 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F88763. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC3324

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VP189

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88788-22MS, F88788-22MSD were used as the QC samples indicated.

F88763-3: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F88763-4: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39884

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) F88763-4, OP39884-MS, OP39884-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2MS, F88763-2MSD were used as the QC samples indicated.

OP39885-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39885-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88763-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88763-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88763-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88763-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39885

F88763-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88763-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88763-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88763-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88763-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88763-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88763-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88763-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21984

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88763-2DUP, F88763-2MS, F88763-2MSD, F88763-2PS, F88763-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP21984-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP21984-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F88763-3 for Lead: Elevated reporting limit(s) due to matrix interference.

F88763-4 for Lead: Elevated reporting limit(s) due to matrix interference.

Matrix: AQ **Batch ID:** MP21992

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88860-2MS, F88860-2MSD, F88860-2PS, F88860-2SDL, F88860-2DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic, Lead are outside control limits for sample MP21992-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP21992-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 5, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88763-1	**Date Sampled:**	12/15/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083647.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A		
Lab Sample ID:	F88763-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C083648.D	1	12/23/11	WV	n/a	n/a	VC3324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A		
Lab Sample ID:	F88763-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055395.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A		
Lab Sample ID:	F88763-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31830.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	70% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A		
Lab Sample ID:	F88763-2	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9488
(2) Prep QC Batch: MP21984

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A		
Lab Sample ID:	F88763-2F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21992

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B		
Lab Sample ID:	F88763-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P4754.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B
Lab Sample ID:	F88763-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/15/11
Date Received:	12/16/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055398.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B		
Lab Sample ID:	F88763-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31833.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	58% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B		
Lab Sample ID:	F88763-3	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.594	0.10	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	0.901	0.20	mg/l	4	12/29/11	01/01/12	RS	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA9488
(2) Instrument QC Batch: MA9490
(3) Prep QC Batch: MP21984

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B		
Lab Sample ID:	F88763-3F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21992

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2(121511)		
Lab Sample ID:	F88763-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P4755.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2(121511)		
Lab Sample ID:	F88763-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L055399.D	1	12/22/11	NAF	12/21/11	OP39884	SL2817
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		14-62%
4165-62-2	Phenol-d5	48%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2(121511)		
Lab Sample ID:	F88763-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R31834.D	1	12/24/11	NAF	12/21/11	OP39885	SR1525
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	80% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2(121511)		
Lab Sample ID:	F88763-4	**Date Sampled:**	12/15/11
Matrix:	AQ - Ground Water	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.622	0.10	mg/l	1	12/29/11	12/30/11	RS	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	0.910	0.20	mg/l	4	12/29/11	01/01/12	RS	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA9488
(2) Instrument QC Batch: MA9490
(3) Prep QC Batch: MP21984

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2(121511)		
Lab Sample ID:	F88763-4F	**Date Sampled:**	12/15/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/16/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	12/30/11	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21992

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F88763

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only / No hard copy!
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 site COCs only	Total Metals Cd Cr Pb As + Hg	Dissolved Metals Cd Cr Pb As + Hg **	COMMENTS	LAB USE
1	Trip Blank	2	—	Lab	Supplied	—	—							
2	MW-53A	21	12/15/11	800	EG	N	G	GW					MS/MSD	
3	MW-53B	7	↓	1125	↓	↓	↓	↓						
4	DUP-2(121511)	7	↓	—	↓	↓	↓	↓						

Relinquished By: Eric Gunn	Date Time: 12/15/11 17:15	Received By: Fed Ex	Date Time:
Relinquished By: FX	Date Time: 12-16-11	Received By: J. Connor (ARCADIS)	Date Time: 10:00
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
** Lab filter + preserve dissolved
See table 1 site COCs
Submit in stand alone report!

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3-8
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88763: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88763 CLIENT: ARCADIS PROJECT: 9215829

DATE/TIME RECEIVED: 12-16-11 10:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: NO ANALYSIS REQUESTED ON COC

TECHNICIAN SIGNATURE/DATE JC 12-16-11 REVIEWER SIGNATURE/DATE 12/16/11

NF 12/10

receipt confirmation 122910.xls

F88763: Chain of Custody

Page 2 of 2

Southeast
ACCUTEST LABORATORIES

01/10/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F88788

Sampling Date: 12/16/11

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **112**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F88788

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88788-1	12/16/11	00:00	MW	12/17/11	AQ	Trip Blank Water	TRIP BLANK
F88788-2	12/16/11	10:38	MW	12/17/11	AQ	Ground Water	MW-37A
F88788-2F	12/16/11	10:38	MW	12/17/11	AQ	Groundwater Filtered	MW-37A
F88788-3	12/16/11	10:14	MW	12/17/11	AQ	Ground Water	MW-37B
F88788-3F	12/16/11	10:14	MW	12/17/11	AQ	Groundwater Filtered	MW-37B
F88788-4	12/16/11	11:42	MW	12/17/11	AQ	Ground Water	MW-23D
F88788-4F	12/16/11	11:42	MW	12/17/11	AQ	Groundwater Filtered	MW-23D
F88788-5	12/16/11	09:48	MW	12/17/11	AQ	Ground Water	MW-37C
F88788-6	12/16/11	14:10	MW	12/17/11	AQ	Ground Water	MW-25A
F88788-6F	12/16/11	14:10	MW	12/17/11	AQ	Groundwater Filtered	MW-25A
F88788-7	12/16/11	00:00	MW	12/17/11	AQ	Trip Blank Water	TRIP BLANK (121611) RW
F88788-8	12/16/11	08:52	MW	12/17/11	AQ	Ground Water	MW-31A (121611)
F88788-8F	12/16/11	08:52	MW	12/17/11	AQ	Groundwater Filtered	MW-31A (121611)

Sample Summary
(continued)

CSX Transportation

Job No: F88788

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88788-9	12/16/11	09:19	MW	12/17/11	AQ	Ground Water	MW-31C (121611)
F88788-9F	12/16/11	09:19	MW	12/17/11	AQ	Groundwater Filtered	MW-31C (121611)
F88788-10	12/16/11	09:43	MW	12/17/11	AQ	Ground Water	MW-31B (121611)
F88788-10F	12/16/11	09:43	MW	12/17/11	AQ	Groundwater Filtered	MW-31B (121611)
F88788-11	12/16/11	10:37	MW	12/17/11	AQ	Ground Water	MW-5D (121611)
F88788-11F	12/16/11	10:37	MW	12/17/11	AQ	Groundwater Filtered	MW-5D (121611)
F88788-12	12/16/11	00:00	MW	12/17/11	AQ	Trip Blank Water	TRIP BLANK
F88788-13	12/16/11	14:00	MW	12/17/11	AQ	Ground Water	MW-20S
F88788-13F	12/16/11	14:00	MW	12/17/11	AQ	Groundwater Filtered	MW-20S
F88788-14	12/16/11	09:10	MW	12/17/11	AQ	Ground Water	MW-30A
F88788-14F	12/16/11	09:10	MW	12/17/11	AQ	Groundwater Filtered	MW-30A
F88788-15	12/16/11	09:35	MW	12/17/11	AQ	Ground Water	MW-30B
F88788-16	12/16/11	13:46	MW	12/17/11	AQ	Ground Water	MW-8S

Sample Summary
(continued)

CSX Transportation

Job No: F88788

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F88788-16F	12/16/11	13:46	MW	12/17/11	AQ	Groundwater Filtered	MW-8S
F88788-17	12/16/11	00:00	MW	12/17/11	AQ	Trip Blank Water	TRIP BLANK
F88788-18	12/16/11	12:00	MW	12/17/11	AQ	Ground Water	MW-35B
F88788-18F	12/16/11	12:00	MW	12/17/11	AQ	Groundwater Filtered	MW-35B
F88788-19	12/16/11	13:00	MW	12/17/11	AQ	Ground Water	MW-35C
F88788-19F	12/16/11	13:00	MW	12/17/11	AQ	Groundwater Filtered	MW-35C
F88788-20	12/16/11	00:00	MW	12/17/11	AQ	Ground Water	DUP-1 (121611)
F88788-20F	12/16/11	00:00	MW	12/17/11	AQ	Groundwater Filtered	DUP-1 (121611)
F88788-21	12/16/11	00:00	MW	12/17/11	AQ	Trip Blank Water	TRIP BLANK
F88788-22	12/16/11	11:30	MW	12/17/11	AQ	Ground Water	MW-35A
F88788-22D	12/16/11	11:30	MW	12/17/11	AQ	Water Dup/MSD	MW-35A
F88788-22F	12/16/11	11:30	MW	12/17/11	AQ	Groundwater Filtered	MW-35A
F88788-22FD	12/16/11	11:30	MW	12/17/11	AQ	Water Dup/MSD	MW-35A

Sample Summary
(continued)

CSX Transportation

Job No: F88788

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F88788-22FS	12/16/11	11:30	MW	12/17/11	AQ	Water Matrix Spike	MW-35A
F88788-22S	12/16/11	11:30	MW	12/17/11	AQ	Water Matrix Spike	MW-35A
F88788-23	12/16/11	10:45	MW	12/17/11	AQ	Ground Water	MW-44A
F88788-23F	12/16/11	10:45	MW	12/17/11	AQ	Groundwater Filtered	MW-44A

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F88788

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 1/9/2012 12:51:36 PM

18 Sample(s) and 5 Trip Blank(s) were collected on 12/16/2011 and were received at Accutest on 12/17/2011 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F88788. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VP188

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88788-14MS, F88788-14MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
F88788-3: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VP189

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88788-22MS, F88788-22MSD were used as the QC samples indicated.

F88788-18: Sample was treated with an anti-foaming agent.

F88788-20: Sample was treated with an anti-foaming agent.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP39921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88788-22MS, F88788-22MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP39921-MS, OP39921-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F88788-4: Dilution required due to high PAH levels.

F88788-6: Dilution required due to high PAH levels.

F88788-14: Dilution required due to high PAH levels.

F88788-18: Elevated reporting limit due to matrix interference, dilution required during sample prep.

F88788-20: Elevated reporting limit due to matrix interference, dilution required during sample prep.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F88788-22MS, F88788-22MSD were used as the QC samples indicated.

RPD(s) for MSD for Fluoranthene are outside control limits for sample OP39920-MSD. Probable cause due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39920

Sample(s) OP39920-MSD, F88788-14, F88788-4, F88788-5, F88788-6, F88788-20 have surrogates outside control limits. Surrogate recoveries corrected for actual spike amount.

OP39920-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP39920-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP39920-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP39920-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-9 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-9 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-9 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-9 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-11 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-11 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-11 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-11 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-13 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-13 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-13 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-13 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F88788-14 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F88788-14 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F88788-14 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F88788-14 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP39920

F88788-15 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-15 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-15 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-15 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-16 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-16 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-16 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-16 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-18 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-18 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-18 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-18 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-19 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-19 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-19 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-19 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-20 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-20 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-20 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-20 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-22 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-22 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-22 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-22 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F88788-23 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F88788-23 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F88788-23 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F88788-23 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP21999

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F88788-22DUP, F88788-22MS, F88788-22MSD, F88788-22PS, F88788-22SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP22000

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F88788-22FDUP, F88788-22FMS, F88788-22FMSD, F88788-22FPS, F88788-22FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: January 9, 2012
Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F88788-1	**Date Sampled:**	12/16/11
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4723.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A		
Lab Sample ID:	F88788-2	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4726.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A
Lab Sample ID: F88788-2 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021927.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A		
Lab Sample ID:	F88788-2	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000479.D	1	12/28/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A		
Lab Sample ID:	F88788-2	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0100	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37A		
Lab Sample ID:	F88788-2F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B		
Lab Sample ID:	F88788-3	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P4727.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0803	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0076	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B
Lab Sample ID:	F88788-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	12/16/11
Date Received:	12/17/11
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021928.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0225	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B		
Lab Sample ID:	F88788-3	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000480.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0261	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0036	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0316	0.00095	mg/l	
91-20-3	Naphthalene	0.0171	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	70% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B		
Lab Sample ID:	F88788-3	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0163	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0244	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B		
Lab Sample ID:	F88788-3F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	F88788-4	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4728.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0509	0.0050	mg/l	
108-88-3	Toluene	0.0605	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0554	0.0050	mg/l	
1330-20-7	Xylene (total)	0.117	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	F88788-4	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X021929.D	4	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0534	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0562	0.019	mg/l	
132-64-9	Dibenzofuran	0.0464	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-23D
Lab Sample ID: F88788-4 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000481.D	10	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2	T000511.D	100	12/29/11	NAF	12/23/11	OP39920	ST31

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0299	0.0095	mg/l	
83-32-9	Acenaphthene	0.0791	0.0095	mg/l	
208-96-8	Acenaphthylene	ND	0.0095	mg/l	
120-12-7	Anthracene	ND	0.0095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	ND	0.0095	mg/l	
86-73-7	Fluorene	0.0375	0.0095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	0.141	0.0095	mg/l	
91-20-3	Naphthalene	1.52 [a]	0.095	mg/l	
85-01-8	Phenanthrene	0.0333	0.0095	mg/l	
129-00-0	Pyrene	ND	0.0095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	105% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	128% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	82% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	95% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	F88788-4	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D		
Lab Sample ID:	F88788-4F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C		
Lab Sample ID:	F88788-5	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4729.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0057	0.0050	mg/l	
108-88-3	Toluene	0.0217	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0112	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0372	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C		
Lab Sample ID:	F88788-5	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021930.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0052	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0183	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0149	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C		
Lab Sample ID:	F88788-5	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000526.D	25	12/30/11	NAF	12/23/11	OP39920	ST32
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.024	mg/l	
83-32-9	Acenaphthene	0.0251	0.024	mg/l	
208-96-8	Acenaphthylene	ND	0.024	mg/l	
120-12-7	Anthracene	ND	0.024	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	mg/l	
218-01-9	Chrysene	ND	0.0048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	mg/l	
206-44-0	Fluoranthene	ND	0.024	mg/l	
86-73-7	Fluorene	ND	0.024	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	mg/l	
91-57-6	2-Methylnaphthalene	0.0468	0.024	mg/l	
91-20-3	Naphthalene	0.719	0.024	mg/l	
85-01-8	Phenanthrene	ND	0.024	mg/l	
129-00-0	Pyrene	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C		
Lab Sample ID:	F88788-5	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A		
Lab Sample ID:	F88788-6	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4730.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0666	0.0050	mg/l	
108-88-3	Toluene	0.0432	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0267	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0511	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A		
Lab Sample ID:	F88788-6	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X021931.D	4	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.110	0.019	mg/l	
95-48-7	2-Methylphenol	0.0563	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0585	0.019	mg/l	
132-64-9	Dibenzofuran	0.101	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	94%		33-118%
4165-60-0	Nitrobenzene-d5	85%		42-108%
321-60-8	2-Fluorobiphenyl	86%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-25A
Lab Sample ID: F88788-6 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000483.D	10	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2	T000514.D	100	12/29/11	NAF	12/23/11	OP39920	ST31

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0096	mg/l	
83-32-9	Acenaphthene	0.262	0.0096	mg/l	
208-96-8	Acenaphthylene	ND	0.0096	mg/l	
120-12-7	Anthracene	ND	0.0096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	0.0137	0.0096	mg/l	
86-73-7	Fluorene	0.110	0.0096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	0.100	0.0096	mg/l	
91-20-3	Naphthalene	1.42 [a]	0.096	mg/l	
85-01-8	Phenanthrene	0.101	0.0096	mg/l	
129-00-0	Pyrene	ND	0.0096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	110% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	128% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	84% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	85% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A		
Lab Sample ID:	F88788-6	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A		
Lab Sample ID:	F88788-6F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK (121611) RW
Lab Sample ID: F88788-7 **Date Sampled:** 12/16/11
Matrix: AQ - Trip Blank Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4724.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31A (121611)
Lab Sample ID: F88788-8 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4731.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31A (121611)
Lab Sample ID: F88788-8 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021932.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31A (121611)
Lab Sample ID: F88788-8 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000484.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0045	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (121611)		
Lab Sample ID:	F88788-8	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (121611)		
Lab Sample ID:	F88788-8F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-31C (121611)
Lab Sample ID: F88788-9 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4732.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31C (121611)
Lab Sample ID: F88788-9 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021933.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (121611)		
Lab Sample ID:	F88788-9	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000485.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0046	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (121611)		
Lab Sample ID:	F88788-9	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0219	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (121611)		
Lab Sample ID:	F88788-9F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0220	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-31B (121611)
Lab Sample ID: F88788-10 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4733.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (121611)
Lab Sample ID: F88788-10 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021934.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (121611)
Lab Sample ID: F88788-10 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000486.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (121611)		
Lab Sample ID:	F88788-10	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (121611)		
Lab Sample ID:	F88788-10F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-5D (121611)
Lab Sample ID: F88788-11 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4734.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5D (121611)
Lab Sample ID: F88788-11 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021935.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5D (121611)
Lab Sample ID: F88788-11 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000487.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0016	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (121611)		
Lab Sample ID:	F88788-11	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5D (121611)		
Lab Sample ID:	F88788-11F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F88788-12 **Date Sampled:** 12/16/11
Matrix: AQ - Trip Blank Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4735.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S		
Lab Sample ID:	F88788-13	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4736.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-20S
Lab Sample ID: F88788-13 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022033.D	1	01/05/12	FS	12/23/11	OP39921	SX1069
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0085	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-20S
Lab Sample ID: F88788-13 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000515.D	1	12/29/11	NAF	12/23/11	OP39920	ST31
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0023	0.00096	mg/l	
208-96-8	Acenaphthylene	0.0024	0.00096	mg/l	
120-12-7	Anthracene	0.0031	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	0.0137	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.0146	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0181	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0057	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.0072	0.00019	mg/l	
218-01-9	Chrysene	0.0132	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.0022	0.00019	mg/l	
206-44-0	Fluoranthene	0.0165	0.00096	mg/l	
86-73-7	Fluorene	0.0020	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0086	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0012	0.00096	mg/l	
85-01-8	Phenanthrene	0.0034	0.00096	mg/l	
129-00-0	Pyrene	0.0129	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S		
Lab Sample ID:	F88788-13	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0195	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20S		
Lab Sample ID:	F88788-13F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-30A
Lab Sample ID: F88788-14 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4737.D	10	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.262	0.050	mg/l	
108-88-3	Toluene	ND	0.050	mg/l	
100-41-4	Ethylbenzene	0.178	0.050	mg/l	
1330-20-7	Xylene (total)	0.390	0.15	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A
Lab Sample ID: F88788-14 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X022050.D	10	01/05/12	FS	12/23/11	OP39921	SX1070
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.582	0.048	mg/l	
95-48-7	2-Methylphenol	0.123	0.048	mg/l	
	3&4-Methylphenol	0.0675	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.191	0.048	mg/l	
132-64-9	Dibenzofuran	0.115	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	92%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A
Lab Sample ID: F88788-14 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000489.D	200	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2	T000516.D	400	12/29/11	NAF	12/23/11	OP39920	ST31

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.254	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.446	0.19	mg/l	
91-20-3	Naphthalene	8.54 [a]	0.38	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A		
Lab Sample ID:	F88788-14	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30A		
Lab Sample ID:	F88788-14F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-30B
Lab Sample ID: F88788-15 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4738.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B
Lab Sample ID: F88788-15 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021938.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B
Lab Sample ID: F88788-15 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000490.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0020	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0029	0.00096	mg/l	
91-20-3	Naphthalene	0.0289	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B		
Lab Sample ID:	F88788-15	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8S
Lab Sample ID: F88788-16 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4739.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8S
Lab Sample ID: F88788-16 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021940.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8S
Lab Sample ID: F88788-16 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000491.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.00033	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00088	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00080	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00067	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00047	0.00019	mg/l	
218-01-9	Chrysene	0.00063	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0011	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00085	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	86% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8S		
Lab Sample ID:	F88788-16	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8S		
Lab Sample ID:	F88788-16F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F88788-17 **Date Sampled:** 12/16/11
Matrix: AQ - Trip Blank Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4725.D	1	12/24/11	DP	n/a	n/a	VP188
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35B
Lab Sample ID: F88788-18 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P4770.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35B
Lab Sample ID: F88788-18 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X021939.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.50	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.50	mg/l	
95-48-7	2-Methylphenol	ND	0.50	mg/l	
	3&4-Methylphenol	ND	0.50	mg/l	
108-95-2	Phenol	ND	0.50	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.50	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.50	mg/l	
86-74-8	Carbazole	ND	0.50	mg/l	
132-64-9	Dibenzofuran	ND	0.50	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	85%		42-108%
321-60-8	2-Fluorobiphenyl	89%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

(a) Elevated reporting limit due to matrix interference, dilution required during sample prep.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B		
Lab Sample ID:	F88788-18	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T000517.D	1	12/29/11	NAF	12/23/11	OP39920	ST31
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.10	mg/l	
83-32-9	Acenaphthene	ND	0.10	mg/l	
208-96-8	Acenaphthylene	ND	0.10	mg/l	
120-12-7	Anthracene	ND	0.10	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	mg/l	
218-01-9	Chrysene	ND	0.020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	mg/l	
206-44-0	Fluoranthene	ND	0.10	mg/l	
86-73-7	Fluorene	ND	0.10	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.10	mg/l	
91-20-3	Naphthalene	ND	0.10	mg/l	
85-01-8	Phenanthrene	ND	0.10	mg/l	
129-00-0	Pyrene	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	118% [b]		33-118%
4165-60-0	Nitrobenzene-d5	90% [b]		42-108%
321-60-8	2-Fluorobiphenyl	96% [b]		40-106%
1718-51-0	Terphenyl-d14	95% [b]		39-121%

(a) Elevated reporting limit due to matrix interference, dilution required during sample prep.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B		
Lab Sample ID:	F88788-18	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B		
Lab Sample ID:	F88788-18F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-35C
Lab Sample ID: F88788-19 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4756.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35C
Lab Sample ID: F88788-19 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021941.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C		
Lab Sample ID:	F88788-19	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000493.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	71% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C		
Lab Sample ID:	F88788-19	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C		
Lab Sample ID:	F88788-19F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: DUP-1 (121611)
Lab Sample ID: F88788-20 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P4771.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (121611)
Lab Sample ID: F88788-20 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X021942.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.50	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.50	mg/l	
95-48-7	2-Methylphenol	ND	0.50	mg/l	
	3&4-Methylphenol	ND	0.50	mg/l	
108-95-2	Phenol	ND	0.50	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.50	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.50	mg/l	
86-74-8	Carbazole	ND	0.50	mg/l	
132-64-9	Dibenzofuran	ND	0.50	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	99%		33-118%
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	95%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

(a) Elevated reporting limit due to matrix interference, dilution required during sample prep.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121611)		
Lab Sample ID:	F88788-20	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T000518.D	1	12/29/11	NAF	12/23/11	OP39920	ST31
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.10	mg/l	
83-32-9	Acenaphthene	ND	0.10	mg/l	
208-96-8	Acenaphthylene	ND	0.10	mg/l	
120-12-7	Anthracene	ND	0.10	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	mg/l	
218-01-9	Chrysene	ND	0.020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	mg/l	
206-44-0	Fluoranthene	ND	0.10	mg/l	
86-73-7	Fluorene	ND	0.10	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.10	mg/l	
91-20-3	Naphthalene	ND	0.10	mg/l	
85-01-8	Phenanthrene	ND	0.10	mg/l	
129-00-0	Pyrene	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	119% [b]		33-118%
4165-60-0	Nitrobenzene-d5	87% [b]		42-108%
321-60-8	2-Fluorobiphenyl	97% [b]		40-106%
1718-51-0	Terphenyl-d14	99% [b]		39-121%

(a) Elevated reporting limit due to matrix interference, dilution required during sample prep.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (121611)		
Lab Sample ID:	F88788-20	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (121611)		
Lab Sample ID:	F88788-20F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F88788-21 **Date Sampled:** 12/16/11
Matrix: AQ - Trip Blank Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4753.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A
Lab Sample ID: F88788-22 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4757.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A
Lab Sample ID: F88788-22 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021943.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A
Lab Sample ID: F88788-22 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000495.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A		
Lab Sample ID:	F88788-22	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/03/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A		
Lab Sample ID:	F88788-22F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-44A
Lab Sample ID: F88788-23 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P4758.D	1	12/26/11	AH	n/a	n/a	VP189
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44A
Lab Sample ID: F88788-23 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X021946.D	1	12/31/11	NAF	12/23/11	OP39921	SX1066
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44A
Lab Sample ID: F88788-23 **Date Sampled:** 12/16/11
Matrix: AQ - Ground Water **Date Received:** 12/17/11
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T000498.D	1	12/29/11	NAF	12/23/11	OP39920	ST30
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0031	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A		
Lab Sample ID:	F88788-23	**Date Sampled:**	12/16/11
Matrix:	AQ - Ground Water	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP21999

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A		
Lab Sample ID:	F88788-23F	**Date Sampled:**	12/16/11
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/17/11
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	01/03/12	01/04/12	RS	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9492
(2) Prep QC Batch: MP22000

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

COC # F88788

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94/5829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kurcanski
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio st suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: data on cd copy no hard copy
- [x] EDD Required, Format: excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010 (Ag+Pb)	Dissolved Metals 6010 (Ag+Pb)	COMMENTS	LAB USE
1	Trip Blank	2	[illegible]	lab	Supplied					X					
2	MW-37A	7	12/16/11	10:38	MW	N	grab	GW		X	X	X	X	Preserved on ice	
3	MW-37B	7	12/16/11	10:14	MW	N	grab	GW		X	X	X	X		
4	MW-230	7	12/16/11	11:42	MW	N	grab	GW		X	X	X	X		
5	MW-37C	6	12/16/11	9:48	MW	N	grab	GW		X	X	X			
6	MW-25A	7	12/16/11	11:10	MW	N	grab	GW		X	X	X	X		

Relinquished By:	Date Time: 12/16/11 15:02	Received By:	Date Time: 12/16/11 1502	Comments & Special Analytical Requirements: -Lab Filtered & Preserved on ice -See Table 1 for site COCs	
Relinquished By:	Date Time: 12/16/11 1700	Received By: FedEx	Date Time:		
Relinquished By: FX	Date Time:	Received By: J. Conrad (ASSE)	Date Time: 12-17-11 07:30		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.8 2.4 2.6 3.0 2.8 3.2

4.1 4

F88788: Chain of Custody
Page 1 of 7

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88788 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. OHIO ST, STE 800
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000372.0061.00001
PM: BRYANT, GREGORY
Email: BRYANT.GREGORY@ARCADIS-US.COM
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY, NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (SITE COC) ONLY	TOTAL METALS (As+Pb)	DISSOLVED METALS (As+Pb)	COMMENTS	LAB USE
7	TRIPBLANK (121611) RW	2	12-16-11	—	LAB	—	—	LIQ	X				LAB SUPPLIED	
8	MW-31A (121611)	7		0852	RW	N	GRAB	GW	X	X	X	X		
9	MW-31C (121611)	7		0919					X	X	X	X		
10	MW-31B (121611)	7		0943					X	X	X	X		
11	MW-51D (121611)	7	↓	1037	↓	↓	↓	↓	X	X	X	X		

PRESERVED ON ICE

Relinquished By: (ARCADIS)	Date Time: 12-16-11 / 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - SEE TABLE I FOR SITE COCs
Relinquished By: FX	Date Time:	Received By: J. Comar (AIS) 12	Date Time: 12-17-11 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88788: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88788

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul Karzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 500
City, State, Zip: Indianapolis, IN
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 Site COCs only	Total Metals 6010 As+ Pb	Dissolved Metals 6010 As+ Pb**	COMMENTS	LAB USE
12	Trip Blank	2	—	Lab Supplied		—			X					
13	MW-20S	7	12/16/11	1400	EG	N	G	GW	X	X	X	X		
14	MW-30A	7		910					X	X	X	X		
15	MW-30B	6		935					X	X	X			
16	MW-8S	7		1346	MW				X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Emy Dunn	12/16/11 1600	Received By: Fed Ex		** Lab filter & preserve dissolved
Relinquished By: FX	Date Time:	Received By: Cespool (ARCADIS)	Date Time: 12-17-11 09:30	See table 1 for site COCs
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88788: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F88788

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 800
City, State, Zip: Indpls, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6508 Fax: 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD only, no hard copy!
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM Low Level (PAHs only)	Total Metals (As + Pb)	Dissolved Metals** (As + Pb)	COMMENTS	LAB USE
17	Trip Blank	2	—	Lab Supplied		—	—		X					
18	MW-35B	7	12/16/11	1200	EG	N	G	GW	X	X	X	X		
19	MW-35C	7	↓	1300	↓	↓	↓	↓	↓	↓	↓	↓	dye in well	
20	DUP-1(121611)	7	↓	—	↓	↓	↓	↓	↓	↓	↓	↓	" "	

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Greg Shue	12/16/11 1600	Received By: Fed Ex		** Lab filter & preserve dissolved
Relinquished By: fx		Received By: J. Cosmar (ARSE)	Date Time: 12-17-11 07:50	See table 1 – site COCs
Relinquished By:		Received By:		Submit in stand-alone report
Received By Laboratory:		Lab Remarks:		LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal #; LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

CSX TRANSPORTATION — **CHAIN OF CUSTODY**

COC # F88788

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indpls, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6560 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS
BTEX 8260
SVOCs 8270 SIM
Total Metals 6010 AS+
Diss. Metals 6010 AS+

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	COMMENTS	LAB USE
21	Trip Blank	2	— Lab Supplied —							
22	MW-35A	~~3~~ 21	12/16/11	1130	EG	N	G	GW	MS/MSD	
23	MW-44A	7	12/16/11	1045	EG	N	G	GW		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Emily Gore	12/16/11 1600	FedEx		* Lab filter & preserve
Relinquished By: FX	Date Time:	Received By: J Cesare (ARSE)	Date Time: 12-17-11 09:30	Table 1 - Site COCs
Relinquished By:	Date Time:	Received By:	Date Time:	Submit in stand-alone report
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F88788: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F88788 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 12-17-11 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6975 2100

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2 xc

OBSERVED TEMPS: 2.6 2.2 2.4 2.8 2.6 3.0

CORRECTED TEMPS: 2.8 2.4 2.6 3.0 2.8 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED VIAL BROKEN FOR SAMPLE #1 TB

NO ANALYSIS REQUESTED FOR SAMPLES 21-23

TECHNICIAN SIGNATURE/DATE JC 12-17-11 REVIEWER SIGNATURE/DATE 12/17/11

NF 12/10

receipt confirmation 122910.xls

4.1 4

F88788: Chain of Custody

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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F88788: Chain of Custody
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Southeast ACCUTEST LABORATORIES

04/17/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91753

Sampling Date: 04/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **25**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91753

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F91753-1	04/02/12	00:00	WR	04/03/12	AQ	Trip Blank Water	TRIP BLANK
F91753-2	04/02/12	14:20	WR	04/03/12	AQ	Ground Water	MW-53B (040212)
F91753-2F	04/02/12	14:20	WR	04/03/12	AQ	Groundwater Filtered	MW-53B (040212)
F91753-3	04/02/12	00:00	WR	04/03/12	AQ	Ground Water	DUP-1 (040212)-WK
F91753-3F	04/02/12	00:00	WR	04/03/12	AQ	Groundwater Filtered	DUP-1 (040212)-WK
F91753-4	04/02/12	15:15	WR	04/03/12	AQ	Ground Water	MW-53A(040212)-WK
F91753-4D	04/02/12	15:15	WR	04/03/12	AQ	Water Dup/MSD	MW-53A(040212)-WK
F91753-4F	04/02/12	15:15	WR	04/03/12	AQ	Groundwater Filtered	MW-53A(040212)-WK
F91753-4FD	04/02/12	15:15	WR	04/03/12	AQ	Water Dup/MSD	MW-53A(040212)-WK
F91753-4FS	04/02/12	15:15	WR	04/03/12	AQ	Water Matrix Spike	MW-53A(040212)-WK
F91753-4S	04/02/12	15:15	WR	04/03/12	AQ	Water Matrix Spike	MW-53A(040212)-WK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91753

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/17/2012 11:13:57 AM

3 Sample(s), 1 Trip Blank were collected on 04/02/2012 and were received at Accutest SE on 04/03/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F91753. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ253

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4MS, F91753-4MSD were used as the QC samples indicated.

F91753-2: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F91753-3: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41238

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4MS, F91753-4MSD were used as the QC samples indicated.

Sample(s) OP41238-MS, OP41238-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41239

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4MS, F91753-4MSD were used as the QC samples indicated.

OP41239-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41239-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41239-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41239-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91753-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91753-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91753-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91753-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91753-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91753-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91753-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91753-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91753-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91753-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91753-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91753-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22558

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4DUP, F91753-4MS, F91753-4MSD, F91753-4PS, F91753-4SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP22564

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4FDUP, F91753-4FMS, F91753-4FMSD, F91753-4FPS, F91753-4FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 17, 2012

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91753-1	**Date Sampled:**	04/02/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z5317.D	1	04/11/12	KW	n/a	n/a	VZ253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (040212)		
Lab Sample ID:	F91753-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z5318.D	1	04/11/12	KW	n/a	n/a	VZ253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	114%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (040212)
Lab Sample ID:	F91753-2
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/02/12
Date Received:	04/03/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T001770.D	1	04/04/12	FS	04/04/12	OP41238	ST97
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	45%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (040212)		
Lab Sample ID:	F91753-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33661.D	1	04/09/12	MG	04/04/12	OP41239	SR1613
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	48% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (040212)		
Lab Sample ID:	F91753-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.101	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.160	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (040212)		
Lab Sample ID:	F91753-2F	**Date Sampled:**	04/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040212)-WK		
Lab Sample ID:	F91753-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z5319.D	1	04/11/12	KW	n/a	n/a	VZ253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-WK		
Lab Sample ID:	F91753-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T001771.D	1	04/04/12	FS	04/04/12	OP41238	ST97
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	45%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-WK		
Lab Sample ID:	F91753-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33662.D	1	04/09/12	MG	04/04/12	OP41239	SR1613
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	46% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-WK		
Lab Sample ID:	F91753-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0833	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.118	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040212)-WK		
Lab Sample ID:	F91753-3F	**Date Sampled:**	04/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A(040212)-WK		
Lab Sample ID:	F91753-4	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z5320.D	1	04/11/12	KW	n/a	n/a	VZ253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		87-116%
17060-07-0	1,2-Dichloroethane-D4	117%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A(040212)-WK
Lab Sample ID:	F91753-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/02/12
Date Received:	04/03/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T001772.D	1	04/04/12	FS	04/04/12	OP41238	ST97
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	57%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A(040212)-WK
Lab Sample ID:	F91753-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/02/12
Date Received:	04/03/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33663.D	1	04/09/12	MG	04/04/12	OP41239	SR1613
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A(040212)-WK		
Lab Sample ID:	F91753-4	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A(040212)-WK		
Lab Sample ID:	F91753-4F	**Date Sampled:**	04/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91753 Cooler 1 of 2

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only. No HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 - Site COCs only *	Total Metals 6010 As + Pb	Dissolved Metals 6010 As + Pb **	COMMENTS	LAB USE
1	Trip Blank	2	4/2/12	—	Lab	Supplied	—	—	X				LAB SUPPLIED	
2	MW-53B (040212)	7		1420	WK	N	G	GW	X	X	X	X		
3	DUP-1 (040212)-WK	7		—					X	X	X	X		
4	MW-53A (040212)	21		1515					X	X	X	X	MS/MSD	

→ WK 4/3/12

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	4/02/12 1800	FX		* See Table 1 for site COCs
Relinquished By: FX	4-3-12	T Rome (AISE)	09:30	** Lab filter & preserve dissolved metals
Relinquished By:	Date Time:	Received By:	Date Time:	Submit in stand-alone report
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / Lab Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.4 2.8

4.1 4

F91753: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91753 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 4-3-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8996 2605 2262

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 26 3.0
- [ ] CORRECTED TEMPS: 24.2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 4-3-12 REVIEWER SIGNATURE/DATE 04/03/12

NF 12/10

receipt confirmation 122910.xls

F91753: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

04/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91754

Sampling Date: 04/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Sections: 1 2 3 4

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Sample Summary

CSX Transportation

Job No: F91754

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91754-1	04/02/12	00:00	EG	04/03/12	AQ	Trip Blank Water	TRIP BLANK
F91754-2	04/02/12	13:25	EG	04/03/12	AQ	Ground Water	MW-48B (040212)
F91754-2D	04/02/12	13:25	EG	04/03/12	AQ	Water Dup/MSD	MW-48B (040212)
F91754-2F	04/02/12	13:25	EG	04/03/12	AQ	Groundwater Filtered	MW-48B (040212)
F91754-2FD	04/02/12	13:25	EG	04/03/12	AQ	Water Dup/MSD	MW-48B (040212)
F91754-2FS	04/02/12	13:25	EG	04/03/12	AQ	Water Matrix Spike	MW-48B (040212)
F91754-2S	04/02/12	13:25	EG	04/03/12	AQ	Water Matrix Spike	MW-48B (040212)
F91754-3	04/02/12	00:00	EG	04/03/12	AQ	Ground Water	DUP-1 (040212)-EG
F91754-3F	04/02/12	00:00	EG	04/03/12	AQ	Groundwater Filtered	DUP-1 (040212)-EG

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91754

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/18/2012 10:05:47 AM

2 Samples, 1 Trip Blank were collected on 04/02/2012 and were received at Accutest SE on 04/03/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F91754. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2430

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91815-17MS, F91815-17MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VO346

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

F91754-2: Confirmation run.

Matrix: AQ **Batch ID:** VO348

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91845-2MS, F91845-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Xylene (total) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41254

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Carbazole, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP41254-MS, OP41254-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP41255-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F91754-2, F91754-3, OP41255-MS, OP41255-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41255-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP41255-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Anthracene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Chrysene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Fluorene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.

OP41255-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Naphthalene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.

OP41255-BS for Pyrene: Spike recoveries corrected for actual spike amount.

OP41255-MS for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

OP41255-MSD for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

F91754-2 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

F91754-3 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22566

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2DUP, F91754-2FDUP, F91754-2FMS, F91754-2FMSD, F91754-2FPS, F91754-2FSDL, F91754-2MS, F91754-2MSD, F91754-2PS, F91754-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 18, 2012

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91754-1	**Date Sampled:**	04/02/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8013.D	1	04/10/12	MM	n/a	n/a	VO346
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (040212)		
Lab Sample ID:	F91754-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8086.D	1	04/12/12	MM	n/a	n/a	VO348
Run #2 [a]	O8019.D	1	04/10/12	MM	n/a	n/a	VO346

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	0.0057	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	97%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	94%	76-127%
2037-26-5	Toluene-D8	102%	102%	86-112%
460-00-4	4-Bromofluorobenzene	98%	101%	84-120%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (040212)		
Lab Sample ID:	F91754-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022934.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2	T001849.D	2	04/16/12	FS	04/05/12	OP41254	ST103

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.121 [a]	0.0095	mg/l	
95-48-7	2-Methylphenol	0.0093	0.0048	mg/l	
	3&4-Methylphenol	0.0101	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0623	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0367	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	43%	14-62%
4165-62-2	Phenol-d5	28%	27%	10-40%
118-79-6	2,4,6-Tribromophenol	82%	72%	33-118%
4165-60-0	Nitrobenzene-d5	108%	95%	42-108%
321-60-8	2-Fluorobiphenyl	83%	74%	40-106%
1718-51-0	Terphenyl-d14	61%	50%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (040212)		
Lab Sample ID:	F91754-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33689.D	50	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.0601	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0095	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	ND	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	0.140	0.048	mg/l	
91-20-3	Naphthalene	1.83	0.048	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (040212)		
Lab Sample ID:	F91754-2	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (040212)		
Lab Sample ID:	F91754-2F	**Date Sampled:**	04/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040212)-EG		
Lab Sample ID:	F91754-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058705.D	1	04/10/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0139	0.0050	mg/l	
108-88-3	Toluene	0.0272	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0099	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0335	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-EG
Lab Sample ID:	F91754-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/02/12
Date Received:	04/03/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022937.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0526	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0218	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0118	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	83%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	49%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-EG		
Lab Sample ID:	F91754-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33690.D	25	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.024	mg/l	
83-32-9	Acenaphthene	ND	0.024	mg/l	
208-96-8	Acenaphthylene	ND	0.024	mg/l	
120-12-7	Anthracene	ND	0.024	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	mg/l	
218-01-9	Chrysene	ND	0.0048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	mg/l	
206-44-0	Fluoranthene	ND	0.024	mg/l	
86-73-7	Fluorene	ND	0.024	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	mg/l	
91-57-6	2-Methylnaphthalene	0.0499	0.024	mg/l	
91-20-3	Naphthalene	0.825	0.024	mg/l	
85-01-8	Phenanthrene	ND	0.024	mg/l	
129-00-0	Pyrene	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040212)-EG		
Lab Sample ID:	F91754-3	**Date Sampled:**	04/02/12
Matrix:	AQ - Ground Water	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22566

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040212)-EG		
Lab Sample ID:	F91754-3F	**Date Sampled:**	04/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22566

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91754

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: #9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: Bloomington
CSXT Contact: Paul J. Kwzenski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 800
City, State, Zip: Indianapolis, IN 46209
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: Data CD Only No HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel Format

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 0 | 7 | 6

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Site List)	Total Metals 6010 (As+Pb)	Diss Metals 6010 (As+Pb)	COMMENTS	LAB USE
1	TRIP BLANK	2	4/02/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
2	MW-48B(040212)	21	4/02/12	1325	EG	N	G	GW	X	X	X	X	MS/MSD	
3	DUP-1(040212)-EG	7	4/02/12	—	EG	N	G	GW	X	X	X	X		

EG 4/2/12

Relinquished By:	Date Time: 4/2/12 1630	Received By: FedEx	Date Time:	Comments & Special Analytical Requirements: - See attached table for site specific constituents to be analyzed - Lab Filter and Preserved Dissolved Metals - Submit in Stand Alone Report	
Relinquished By:	Date Time: 4-3-12	Received By: J. Combe (AISE)	Date Time: 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 2.6 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91754: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91754 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 4-3-12 09:30 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7955 4423 3499

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED ONLY 1 AMBER (8270) FOR SAMPLE #3; RECEIVED 1 EXTRA AMBER (8270) FOR SAMPLE #2

TECHNICIAN SIGNATURE/DATE JC 4-3-12 REVIEWER SIGNATURE/DATE 04/03/12

NF 12/10 receipt confirmation 122910.xls

F91754: Chain of Custody
Page 2 of 2

Southeast ACCUTEST LABORATORIES

04/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91789

Sampling Date: 04/03/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91789

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91789-1	04/03/12	00:00	EG	04/04/12	AQ	Trip Blank Water	TRIP BLANK
F91789-2	04/03/12	15:50	EG	04/04/12	AQ	Ground Water	MW-49A (040312)
F91789-2F	04/03/12	15:50	EG	04/04/12	AQ	Groundwater Filtered	MW-49A (040312)
F91789-3	04/03/12	15:10	EG	04/04/12	AQ	Ground Water	MW-49B (040312)
F91789-3F	04/03/12	15:10	EG	04/04/12	AQ	Groundwater Filtered	MW-49B (040312)
F91789-4	04/03/12	14:50	EG	04/04/12	AQ	Ground Water	MW-49C (040312)
F91789-4F	04/03/12	14:50	EG	04/04/12	AQ	Groundwater Filtered	MW-49C (040312)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91789

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/18/2012 9:00:58 AM

3 Samples and 1 Trip Blank were collected on 04/03/2012 and were received at Accutest SE on 04/04/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F91789. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2430

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91815-17MS, F91815-17MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41254

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Carbazole, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP41254-MS, OP41254-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP41255-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP41255-MS, OP41255-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41255-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP41255-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

OP41255-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Chrysene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Fluorene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Naphthalene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Pyrene: Spike recoveries corrected for actual spike amount.
OP41255-MS for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.
OP41255-MSD for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.
F91789-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91789-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91789-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91789-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91789-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91789-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91789-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91789-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91789-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91789-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91789-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91789-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22556

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F91882-1DUP, F91882-1MS, F91882-1MSD, F91882-1PS, F91882-1SDL were used as the QC samples for metals.
Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for Arsenic are outside control limits. Spike recovery indicates possible matrix interference.
MP22556-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 18, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91789-1	**Date Sampled:**	04/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058710.D	1	04/10/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (040312)		
Lab Sample ID:	F91789-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058711.D	1	04/10/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (040312)		
Lab Sample ID:	F91789-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022940.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	57%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (040312)		
Lab Sample ID:	F91789-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33683.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0088	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (040312)		
Lab Sample ID:	F91789-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49A (040312)		
Lab Sample ID:	F91789-2F	**Date Sampled:**	04/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (040312)		
Lab Sample ID:	F91789-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058712.D	1	04/11/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (040312)		
Lab Sample ID:	F91789-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022941.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (040312)		
Lab Sample ID:	F91789-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33684.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0058	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (040312)		
Lab Sample ID:	F91789-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (040312)		
Lab Sample ID:	F91789-3F	**Date Sampled:**	04/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (040312)		
Lab Sample ID:	F91789-4	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058713.D	1	04/11/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (040312)		
Lab Sample ID:	F91789-4	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022942.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (040312)
Lab Sample ID:	F91789-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/03/12
Date Received:	04/04/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33685.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0013	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (040312)		
Lab Sample ID:	F91789-4	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (040312)		
Lab Sample ID:	F91789-4F	**Date Sampled:**	04/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/09/12	04/09/12	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9700
(2) Prep QC Batch: MP22556

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91789

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: #94158829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: Bloomington
CSXT Contact: Paul J Kwiatkowski
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD ONLY AND HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] EDD Required, Format: Excel
- [x] Level IV

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note → Pres. Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Low Lvl)	Total Metals (6010 (As+Pb)	Dissolved Metals (6010 (As+Pb) + M	COMMENTS	LAB USE
1	TRIP BLANK	2	4/3/12	—	LAB	N	G	GW	1 0 2 0	X				LAB SUPPLIED	
2	MW-49A(040312)	7		1550	EG					X	X	X	X		
3	MW-49B(040312)	7		1510	EG					X	X	X	X		
4	MW-49C(040312)	7	↓	1450	EG	↓	↓	↓		X	X	X	X		

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Emily Shue	4/3/12 1645	Fedex	
2	FX	4/4/12 9:00	ALSE	4/4/12 9:00
3				

Received By Laboratory: — Date Time: — Lab Remarks:

Comments & Special Analytical Requirements:
* SEE ATTACHED TABLE FOR SITE COC's
** LAB PRESERVE AND FILTER
Submit in stand-alone report

LAB USE: Custody Intact: [ ] Yes [ ] No
Custody Seal #: #
LAB Log Number: #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.4C — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91789: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91789 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/04/12 9:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8768 6935 7877

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 3

NUMBER OF LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Scott Hill 04/04/12 REVIEWER SIGNATURE/DATE 4-4-12

NF 12/10

receipt confirmation 122910.xls

F91789: Chain of Custody

Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexy)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

4

F91789: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

04/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91800

Sampling Date: 04/03/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **23**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Sample Summary

CSX Transportation

Job No: F91800

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91800-1	04/03/12	12:45	EG	04/04/12	AQ	Ground Water	MW-40B (040312)
F91800-1F	04/03/12	12:45	EG	04/04/12	AQ	Groundwater Filtered	MW-40B (040312)
F91800-2	04/03/12	13:10	EG	04/04/12	AQ	Ground Water	MW-40C (040312)
F91800-3	04/03/12	13:55	EG	04/04/12	AQ	Ground Water	MW-40A (040312)
F91800-4	04/03/12	00:00	EG	04/04/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91800

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/18/2012 9:07:09 AM

3 Samples were collected on 04/03/2012 and were received at Accutest SE on 04/04/2012 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F91800. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2430

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91815-17MS, F91815-17MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41254

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Carbazole, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP41254-MS, OP41254-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91754-2MS, F91754-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(b)fluoranthene, Fluoranthene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP41255-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP41255-MS, OP41255-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41255-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41255-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41255

OP41255-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Chrysene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Fluorene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Naphthalene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.
OP41255-BS for Pyrene: Spike recoveries corrected for actual spike amount.
OP41255-MS for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.
OP41255-MSD for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.
F91800-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91800-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91800-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91800-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91800-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91800-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91800-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91800-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91800-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91800-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91800-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91800-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22558

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F91753-4DUP, F91753-4MS, F91753-4MSD, F91753-4PS, F91753-4SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 18, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-40B (040312)		
Lab Sample ID:	F91800-1	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058714.D	1	04/11/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (040312)
Lab Sample ID:	F91800-1
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/03/12
Date Received:	04/04/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022943.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (040312)		
Lab Sample ID:	F91800-1	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33686.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0105	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	0.0046	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0124	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (040312)		
Lab Sample ID:	F91800-1	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (040312)		
Lab Sample ID:	F91800-1F	**Date Sampled:**	04/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (040312)		
Lab Sample ID:	F91800-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058715.D	1	04/11/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (040312)
Lab Sample ID:	F91800-2
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/03/12
Date Received:	04/04/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022944.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (040312)		
Lab Sample ID:	F91800-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33687.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0071	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0050	0.00097	mg/l	
86-73-7	Fluorene	0.0054	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0039	0.00097	mg/l	
85-01-8	Phenanthrene	0.0012	0.00097	mg/l	
129-00-0	Pyrene	0.0025	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (040312)		
Lab Sample ID:	F91800-2	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (040312)		
Lab Sample ID:	F91800-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058716.D	1	04/11/12	AP	n/a	n/a	VN2430
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (040312)
Lab Sample ID:	F91800-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/03/12
Date Received:	04/04/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X022945.D	1	04/05/12	FS	04/05/12	OP41254	SX1118
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (040312)		
Lab Sample ID:	F91800-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33688.D	1	04/10/12	MG	04/05/12	OP41255	SR1614
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0079	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (040312)		
Lab Sample ID:	F91800-3	**Date Sampled:**	04/03/12
Matrix:	AQ - Ground Water	**Date Received:**	04/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22558

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91800

COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: #9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiatkowski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site Analyte)	Total Metals (Cr, Pb)	Dissolved Metals (Cr, Pb) **	COMMENTS	LAB USE
1	MW-40B (040312)	7	4/3/12	1245	EG	N	G	GW	X	X	X	X		
2	MW-40C (040312)	6		1310					X	X	X			
3	MW-40A (040312)	6		1355					X	X	X			
	Trip Blank	2	Lab Supplied						X					

	Relinquished By:	Date Time:	Received By:	Date Time:
1		4/3/12 1645	Fed Ex	
2	FX	4/4/12 9:00	ALSE	4/4/12 9:00
3				
	Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
* SEE ATTACHED TABLE For SITE COC's
** LAB FILTER AND PRESERVE

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.2c
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F91800: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91800 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/04/12 9:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6260 8596

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [X] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 1

NUMBER OF LAB FILTERED METALS ? 1

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: TRIP BLANK RECEIVED BROKEN (BOTH VIALS) 40 mL.

TECHNICIAN SIGNATURE/DATE [signature] 04/04/12 REVIEWER SIGNATURE/DATE [signature] 04/04/12

NF 12/10

receipt confirmation 122910.xls

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91800: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/20/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91840

Sampling Date: 04/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **32**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91840

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91840-1	04/04/12	00:00	EG	04/05/12	AQ	Trip Blank Water	TRIP BLANK
F91840-2	04/04/12	11:15	EG	04/05/12	AQ	Ground Water	MW-31A (040412)
F91840-2F	04/04/12	11:15	EG	04/05/12	AQ	Groundwater Filtered	MW-31A (040412)
F91840-3	04/04/12	12:10	EG	04/05/12	AQ	Ground Water	MW-31B (040412)
F91840-3F	04/04/12	12:10	EG	04/05/12	AQ	Groundwater Filtered	MW-31B (040412)
F91840-4	04/04/12	11:45	EG	04/05/12	AQ	Ground Water	MW-31C (040412)
F91840-4F	04/04/12	11:45	EG	04/05/12	AQ	Groundwater Filtered	MW-31C (040412)
F91840-5	04/04/12	13:15	EG	04/05/12	AQ	Ground Water	MW-25A (040412)
F91840-5F	04/04/12	13:15	EG	04/05/12	AQ	Groundwater Filtered	MW-25A (040412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** F91840

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date** 4/19/2012 4:19:24 PM

4 Samples and 1 Trip Blank were collected on 04/04/2012 and were received at Accutest SE on 04/05/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F91840. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2369

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91840-3MS, F91840-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41319

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F91840-2, F91840-3, OP41319-MS, OP41319-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F91840-2: Confirmed ND by re-extraction and reanalysis beyond hold-time.

F91840-3: Confirmed ND by re-extraction and reanalysis beyond hold-time.

OP41319-MSD for 2-Fluorophenol: Outside control limits due to dilution.

OP41319-MS/MSD for Phenol-d5: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP41419

F91840-2: Confirmation run.

F91840-3: Confirmation run.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Pentachlorophenol are outside control limits for sample OP41320-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP41320-MS, OP41320-MSD, F91840-2, F91840-3 have surrogates outside control limits. Surrogate recoveries corrected for actual spike amount. Outside control limits.

OP41320-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Chrysene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluorene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Naphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MS for Terphenyl-d14: Outside control limits due to dilution.

OP41320-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MSD for Terphenyl-d14: Outside control limits due to dilution.

F91840-2: Confirmed ND by re-extraction and reanalysis beyond hold-time.

F91840-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91840-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91840-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91840-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91840-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount. Outside control limits.

F91840-3: Confirmed ND by re-extraction and reanalysis beyond hold-time.

F91840-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91840-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91840-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91840-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91840-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount. Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

F91840-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91840-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91840-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91840-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP41420

F91840-2: Confirmation run for surrogate recoveries.

F91840-3: Confirmation run for surrogate recoveries.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22564

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91753-4FDUP, F91753-4FMS, F91753-4FMSD, F91753-4FPS, F91753-4FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP22567

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91840-5DUP, F91840-5MS, F91840-5MSD, F91840-5PS, F91840-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP22567-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 20, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91840-1	**Date Sampled:**	04/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058241.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (040412)		
Lab Sample ID:	F91840-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058246.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (040412)		
Lab Sample ID:	F91840-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031079.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2 [b]	X023057.D	1	04/17/12	FS	04/17/12	OP41419	SX1125

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%	41%	14-62%
4165-62-2	Phenol-d5	22%	24%	10-40%
118-79-6	2,4,6-Tribromophenol	63%	85%	33-118%
4165-60-0	Nitrobenzene-d5	69%	74%	42-108%
321-60-8	2-Fluorobiphenyl	66%	72%	40-106%
1718-51-0	Terphenyl-d14	37%	88%	39-121%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (040412)		
Lab Sample ID:	F91840-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W064626.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2 [b]	R33890.D	1	04/19/12	MG	04/17/12	OP41420	SR1623

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [c]	77% [c]	33-118%
4165-60-0	Nitrobenzene-d5	60% [c]	65% [c]	42-108%
321-60-8	2-Fluorobiphenyl	61% [c]	60% [c]	40-106%
1718-51-0	Terphenyl-d14	34% [d]	77% [c]	39-121%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries.
(c) Surrogate recoveries corrected for actual spike amount.
(d) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (040412)		
Lab Sample ID:	F91840-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (040412)		
Lab Sample ID:	F91840-2F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (040412)		
Lab Sample ID:	F91840-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058242.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (040412)		
Lab Sample ID:	F91840-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031080.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2 [b]	X023058.D	1	04/17/12	FS	04/17/12	OP41419	SX1125

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%	43%	14-62%
4165-62-2	Phenol-d5	21%	27%	10-40%
118-79-6	2,4,6-Tribromophenol	60%	76%	33-118%
4165-60-0	Nitrobenzene-d5	68%	71%	42-108%
321-60-8	2-Fluorobiphenyl	65%	71%	40-106%
1718-51-0	Terphenyl-d14	28%	81%	39-121%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (040412)
Lab Sample ID: F91840-3 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W064627.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2 [b]	R33891.D	1	04/19/12	MG	04/17/12	OP41420	SR1623

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [c]	70% [c]	33-118%
4165-60-0	Nitrobenzene-d5	58% [c]	66% [c]	42-108%
321-60-8	2-Fluorobiphenyl	57% [c]	60% [c]	40-106%
1718-51-0	Terphenyl-d14	26% [d]	72% [c]	39-121%

(a) Confirmed ND by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries.
(c) Surrogate recoveries corrected for actual spike amount.
(d) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (040412)		
Lab Sample ID:	F91840-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0054	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (040412)		
Lab Sample ID:	F91840-3F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (040412)		
Lab Sample ID:	F91840-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058243.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (040412)		
Lab Sample ID:	F91840-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031081.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	53%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (040412)		
Lab Sample ID:	F91840-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064628.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	46% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (040412)		
Lab Sample ID:	F91840-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0146	0.010	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/10/12	04/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9705
(2) Prep QC Batch: MP22564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (040412)		
Lab Sample ID:	F91840-4F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0153	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (040412)		
Lab Sample ID:	F91840-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058244.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0057	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (040412)
Lab Sample ID:	F91840-5
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/04/12
Date Received:	04/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031082.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0080	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0193	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	83%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	43%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-25A (040412)
Lab Sample ID: F91840-5 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064695.D	1	04/12/12	MG	04/10/12	OP41320	SW3161
Run #2	W064629.D	4	04/11/12	MG	04/10/12	OP41320	SW3159

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0414 [a]	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	0.0017	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0072	0.00095	mg/l	
86-73-7	Fluorene	0.0258	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0020	0.00095	mg/l	
91-20-3	Naphthalene	0.0755 [a]	0.0038	mg/l	
85-01-8	Phenanthrene	0.0179	0.00095	mg/l	
129-00-0	Pyrene	0.0035	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	85% [b]	92% [b]	33-118%
4165-60-0	Nitrobenzene-d5	64% [b]	73% [b]	42-108%
321-60-8	2-Fluorobiphenyl	69% [b]	78% [b]	40-106%
1718-51-0	Terphenyl-d14	39% [b]	41% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (040412)		
Lab Sample ID:	F91840-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (040412)		
Lab Sample ID:	F91840-5F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91840

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days: ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 *Site COCs	Total Metals As+Pb 6010	Dissolved Metals 6010 - As+Pb **	COMMENTS	LAB USE
1	Trip Blank	2	—	Lab Supplied					X					
2	MW-31A (040412)	7	4/4/12	1115	EG	N	G	GW	X	X	X	X		
3	MW-31B (040412)	7		1210					X	X	X	X		
4	MW-31C (040412)	7		1145					X	X	X	X		
5	MW-25A (040412)	7	↓	1315	↓	↓	↓	↓	X	X	X	X		

	Relinquished By:	Date/Time:	Received By:	Date/Time:
1	[signature]	4/4/12 1645	Fed Ex	
2	EG	040512 0900	[signature] MLSE	04-05-12 0900
3	Relinquished By:	Date Time:	Received By:	Date Time:
	Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
* See Table 1 for site COCs
** Lab Filter + preserve dissolved metals

LAB USE: Custody Intact [ ] Yes [ ] No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.0, 3.4
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91840: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91840 CLIENT: Arcadis PROJECT: Inc Creosote

DATE/TIME RECEIVED: 04-05-12 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8996 2605 3475 / 7957 6263 0911

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2 3.6
- [ ] CORRECTED TEMPS: 3.0, 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [signature] 04-05-12 REVIEWER SIGNATURE/DATE: [signature] 04/05/12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91840: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91840: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/17/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91844

Sampling Date: 04/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **31**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91844

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91844-1	04/04/12	00:00	WK	04/05/12	AQ	Trip Blank Water	TRIP BLANK
F91844-2	04/04/12	08:05	WK	04/05/12	AQ	Ground Water	MW-47A (040412)
F91844-2F	04/04/12	08:05	WK	04/05/12	AQ	Groundwater Filtered	MW-47A (040412)
F91844-3	04/04/12	13:25	WK	04/05/12	AQ	Ground Water	MW-45A (040412)
F91844-3F	04/04/12	13:25	WK	04/05/12	AQ	Groundwater Filtered	MW-45A (040412)
F91844-4	04/04/12	14:25	WK	04/05/12	AQ	Ground Water	MW-45B (040412)
F91844-4F	04/04/12	14:25	WK	04/05/12	AQ	Groundwater Filtered	MW-45B (040412)
F91844-5	04/04/12	15:15	WK	04/05/12	AQ	Ground Water	MW-45C (040412)
F91844-5F	04/04/12	15:15	WK	04/05/12	AQ	Groundwater Filtered	MW-45C (040412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91844

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/17/2012 1:13:47 PM

4 Samples, 1 Trip Blank were collected on 04/04/2012 and were received at Accutest SE on 04/05/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F91844. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2369

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91840-3MS, F91840-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41319

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference.
Sample(s) OP41319-MS, OP41319-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41319-MS for Phenol-d5: Outside control limits due to dilution.

OP41319-MSD for 2-Fluorophenol, Phenol-d5: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s)/ Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Pentachlorophenol are outside control limits for sample OP41320-MSD. Probable cause due to sample non-homogeneity.

Sample(s) F91844-5, OP41320-MS, OP41320-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP41320-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

OP41320-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.
OP41320-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Anthracene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Chrysene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Fluorene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.
OP41320-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Naphthalene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.
OP41320-BS for Pyrene: Spike recoveries corrected for actual spike amount.
OP41320-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP41320-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP41320-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP41320-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
OP41320-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP41320-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP41320-MS for Nitrobenzene-d5: Outside control limits due to dilution.
OP41320-MS for Terphenyl-d14: Outside control limits due to dilution.
OP41320-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP41320-MSD for Nitrobenzene-d5: Outside control limits due to dilution.
OP41320-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP41320-MSD for Terphenyl-d14: Outside control limits due to dilution.
F91844-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91844-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91844-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91844-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91844-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91844-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91844-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91844-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91844-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91844-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91844-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91844-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91844-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F91844-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F91844-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F91844-5 for Nitrobenzene-d5: Outside control limits due to dilution.
F91844-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F91844-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F91844-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F91844-5 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22567

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91840-5DUP, F91840-5MS, F91840-5MSD, F91840-5PS, F91840-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP22567-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 17, 2012

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91844-1	**Date Sampled:**	04/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058252.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (040412)		
Lab Sample ID:	F91844-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058253.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-47A (040412)
Lab Sample ID: F91844-2 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031083.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	46%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (040412)		
Lab Sample ID:	F91844-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064630.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	39% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (040412)		
Lab Sample ID:	F91844-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-47A (040412)		
Lab Sample ID:	F91844-2F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A (040412)		
Lab Sample ID:	F91844-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058254.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45A (040412)
Lab Sample ID: F91844-3 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031084.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	19%		10-40%
118-79-6	2,4,6-Tribromophenol	57%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (040412)		
Lab Sample ID:	F91844-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064631.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0011	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	49% [a]		42-108%
321-60-8	2-Fluorobiphenyl	48% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (040412)		
Lab Sample ID:	F91844-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A (040412)		
Lab Sample ID:	F91844-3F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (040412)		
Lab Sample ID:	F91844-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058255.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (040412)		
Lab Sample ID:	F91844-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031085.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	61%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (040412)		
Lab Sample ID:	F91844-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064632.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (040412)		
Lab Sample ID:	F91844-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0153	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0247	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (040412)		
Lab Sample ID:	F91844-4F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (040412)		
Lab Sample ID:	F91844-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058256.D	1	04/11/12	RB	n/a	n/a	VM2369
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0107	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (040412)		
Lab Sample ID:	F91844-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031086.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0672	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0535	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (040412)
Lab Sample ID:	F91844-5
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/04/12
Date Received:	04/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064696.D	10	04/12/12	MG	04/10/12	OP41320	SW3161
Run #2	R33784.D	20	04/13/12	MRE	04/10/12	OP41320	SR1617

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0097	mg/l	
83-32-9	Acenaphthene	0.0869	0.0097	mg/l	
208-96-8	Acenaphthylene	ND	0.0097	mg/l	
120-12-7	Anthracene	ND	0.0097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	ND	0.0097	mg/l	
86-73-7	Fluorene	0.0463	0.0097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0097	mg/l	
91-20-3	Naphthalene	0.470 [a]	0.019	mg/l	
85-01-8	Phenanthrene	0.0283	0.0097	mg/l	
129-00-0	Pyrene	ND	0.0097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [b]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	63% [b]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	65% [b]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	70% [b]	0% [c]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (040412)		
Lab Sample ID:	F91844-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (040412)		
Lab Sample ID:	F91844-5F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91844

Cooler 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiecinski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡	1	0	2	0	COMMENTS	LAB USE
									Pres. Code	BTEX 8260	SVOCs 8270 (SIM ONLY)	Metals 6010 (As+Pb) Total	Metals 6010 (As+Pb) Dissolved **		
1	TRIP BLANK	2	4/4/12	—	LAB	N	G	GW		X				LAB SUPPLIED	
2	MW-47A(040412)	7	4/4/12	0805	WK	N	G	GW		X	X	X	X		
3	MW-45A(040412)	7	4/4/12	1325	WK	N	G	GW		X	X	X	X		
4	MW-45B(040412)	7	4/4/12	1425	WK	N	G	GW		X	X	X	X		
5	MW-45C(040412)	7	4/4/12	1515	WK	N	G	GW		X	X	X	X		

WK 4/4/12

Relinquished By:	Date Time: 4/04/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * SEE ATTACHED TABLE FOR SITE COC's. ** LAB FILTER AND PRESERVE	
Relinquished By: FX	Date Time: 04-05-12 0900	Received By: R. Williams ACSE	Date Time: 0405-12 0900		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.6 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F91844: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91844 CLIENT: Arcadis PROJECT: EN Creosote

DATE/TIME RECEIVED: 04-05-12 0900 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6263 0933

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE R. Will 040512 REVIEWER SIGNATURE/DATE M. Jones 04/05/12

NF 12/10

receipt confirmation 122910.xls

F91844: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST LABORATORIES

04/17/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91845

Sampling Date: 04/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **32**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91845

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91845-1	04/04/12	00:00	EG	04/05/12	AQ	Trip Blank Water	TRIP BLANK
F91845-2	04/04/12	14:00	EG	04/05/12	AQ	Ground Water	MW-30A (040412)
F91845-2F	04/04/12	14:00	EG	04/05/12	AQ	Groundwater Filtered	MW-30A (040412)
F91845-3	04/04/12	14:40	EG	04/05/12	AQ	Ground Water	MW-30B (040412)
F91845-3F	04/04/12	14:40	EG	04/05/12	AQ	Groundwater Filtered	MW-30B (040412)
F91845-4	04/04/12	15:30	EG	04/05/12	AQ	Ground Water	MW-42A (040412)
F91845-4F	04/04/12	15:30	EG	04/05/12	AQ	Groundwater Filtered	MW-42A (040412)
F91845-5	04/04/12	16:00	EG	04/05/12	AQ	Ground Water	MW-42B (040412)
F91845-5F	04/04/12	16:00	EG	04/05/12	AQ	Groundwater Filtered	MW-42B (040412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91845

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/17/2012 1:14:52 PM

4 Samples, 1 Trip Blank were collected on 04/04/2012 and were received at Accutest Se on 04/05/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F91845. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VO348

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91845-2MS, F91845-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Xylene (total) are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

F91845-2: Dilution required due to matrix interference (non-target compounds above calibration range).

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41319

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference.
Sample(s) OP41319-MS, OP41319-MSD, F91845-2 have surrogates outside control limits. Probable cause due to matrix interference.

OP41319-MS for Phenol-d5: Outside control limits due to dilution.
OP41319-MSD for 2-Fluorophenol, Phenol-d5: Outside control limits due to dilution.

F91845-2: Dilution required due to matrix interference.

F91845-2 for 2-Fluorophenol: Outside control limits due to dilution.

F91845-2 for Phenol-d5: Outside control limits due to dilution.

F91845-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91845-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F91845-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91845-2 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Pentachlorophenol are outside control limits for sample OP41320-MSD. Probable cause due to sample non-homogeneity.

Sample(s) F91845-2, OP41320-MS, OP41320-MSD have surrogates outside control limits. Probable cause due to matrix interference.

OP41320-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Chrysene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluorene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Naphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MS for Terphenyl-d14: Outside control limits due to dilution.

OP41320-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MSD for Terphenyl-d14: Outside control limits due to dilution.

F91845-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91845-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F91845-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91845-2 for Terphenyl-d14: Outside control limits due to dilution.

F91845-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91845-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91845-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91845-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91845-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91845-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91845-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91845-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

F91845-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91845-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91845-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91845-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22567

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91840-5DUP, F91840-5MS, F91840-5MSD, F91840-5PS, F91840-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP22567-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP22574

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91990-1DUP, F91990-1MS, F91990-1MSD, F91990-1PS, F91990-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 17, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91845-1	**Date Sampled:**	04/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8069.D	1	04/11/12	MM	n/a	n/a	VO348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (040412)		
Lab Sample ID:	F91845-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	O8082.D	5	04/12/12	MM	n/a	n/a	VO348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.192	0.025	mg/l	
108-88-3	Toluene	ND	0.025	mg/l	
100-41-4	Ethylbenzene	0.116	0.025	mg/l	
1330-20-7	Xylene (total)	0.256	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (040412)		
Lab Sample ID:	F91845-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031116.D	20	04/15/12	NAF	04/10/12	OP41319	SU1482
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.096	mg/l	
105-67-9	2,4-Dimethylphenol	0.566	0.096	mg/l	
95-48-7	2-Methylphenol	0.106	0.096	mg/l	
	3&4-Methylphenol	ND	0.096	mg/l	
108-95-2	Phenol	ND	0.096	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.096	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.096	mg/l	
86-74-8	Carbazole	0.179	0.096	mg/l	
132-64-9	Dibenzofuran	ND	0.096	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-62%
4165-62-2	Phenol-d5	0% [b]		10-40%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (040412)		
Lab Sample ID:	F91845-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064697.D	200	04/12/12	MG	04/10/12	OP41320	SW3161
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	ND	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.264	0.19	mg/l	
91-20-3	Naphthalene	4.86	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (040412)		
Lab Sample ID:	F91845-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30A (040412)		
Lab Sample ID:	F91845-2F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (040412)		
Lab Sample ID:	F91845-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8083.D	1	04/12/12	MM	n/a	n/a	VO348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (040412)		
Lab Sample ID:	F91845-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031088.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	67%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (040412)		
Lab Sample ID:	F91845-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064698.D	1	04/12/12	MG	04/10/12	OP41320	SW3161
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0102	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	47% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (040412)		
Lab Sample ID:	F91845-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (040412)		
Lab Sample ID:	F91845-3F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (040412)		
Lab Sample ID:	F91845-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8084.D	1	04/12/12	MM	n/a	n/a	VO348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (040412)
Lab Sample ID:	F91845-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/04/12
Date Received:	04/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031089.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (040412)		
Lab Sample ID:	F91845-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064636.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (040412)		
Lab Sample ID:	F91845-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (040412)		
Lab Sample ID:	F91845-4F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (040412)		
Lab Sample ID:	F91845-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8085.D	1	04/12/12	MM	n/a	n/a	VO348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (040412)		
Lab Sample ID:	F91845-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031090.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (040412)
Lab Sample ID:	F91845-5
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	Date Sampled:	04/04/12
	Date Received:	04/05/12
	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064637.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (040412)		
Lab Sample ID:	F91845-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/12	04/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9707
(2) Prep QC Batch: MP22567

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (040412)		
Lab Sample ID:	F91845-5F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91845

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

COC #

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN Creosote
Proj. City: Bloomington
CSXT Contact: Paul J. Kwrzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Suite 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-0500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [x] Other Deliv: Data CD only, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ▶ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM *	Total Metals 6010 + Hg **	Dissolved Metals 6010 + Hg **	COMMENTS	LAB USE
1	Trip Blank	2	—	Lab	Supplied	—			X					
2	MW-30A (040412)	7	4/4/12	1400	EG	N	G	GW	X	X	X	X		
3	MW-30B (040412)	7	↓	1440	↓	↓	↓	↓	X	X	X	X		
4	MW-42A (040412)	7	↓	1530	↓	↓	↓	↓	X	X	X	X		
5	MW-42B (040412)	7	↓	1600	↓	↓	↓	↓	X	X	X	X		

	Date/Time	Received By	Date Time
Relinquished By: Tracy Green	4/4/12 1645	Received By: Fed Ex	Date Time:
Relinquished By: FED	Date Time: 040512 0900	Received By: [signature] ACSE	Date Time: 040512 0900
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
* See Table 1 for SIK COCs
** Lab Filter + preserve dissolved metals

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 2-8 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91845: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91845 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 04-05-12 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6263 0944

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 040512 REVIEWER SIGNATURE/DATE: 04/05/12

NF 12/10

receipt confirmation 122910.xls

F91845: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits mg/L		mg/L Laboratory Run Detection Limit
Units		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibenzofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methylnaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91845: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

04/19/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91846

Sampling Date: 04/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **38**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F91846

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91846-1	04/04/12	00:00	WK	04/05/12	AQ	Trip Blank Water	TRIP BLANK-1
F91846-2	04/04/12	09:10	WK	04/05/12	AQ	Ground Water	MW-37A (040412)
F91846-2F	04/04/12	09:10	WK	04/05/12	AQ	Groundwater Filtered	MW-37A (040412)
F91846-3	04/04/12	09:45	WK	04/05/12	AQ	Ground Water	MW-37B (040412)
F91846-3F	04/04/12	09:45	WK	04/05/12	AQ	Groundwater Filtered	MW-37B (040412)
F91846-4	04/04/12	10:30	WK	04/05/12	AQ	Ground Water	MW-37C (040412)
F91846-4F	04/04/12	10:30	WK	04/05/12	AQ	Groundwater Filtered	MW-37C (040412)
F91846-5	04/04/12	11:20	WK	04/05/12	AQ	Ground Water	MW-26A (040412)
F91846-5F	04/04/12	11:20	WK	04/05/12	AQ	Groundwater Filtered	MW-26A (040412)
F91846-6	04/04/12	00:00	WK	04/05/12	AQ	Trip Blank Water	TRIP BLANK-2
F91846-7	04/04/12	16:15	WK	04/05/12	AQ	Ground Water	MW-34A (040412)
F91846-7D	04/04/12	16:15	WK	04/05/12	AQ	Water Dup/MSD	MW-34A (040412)
F91846-7F	04/04/12	16:15	WK	04/05/12	AQ	Groundwater Filtered	MW-34A (040412)

Sample Summary
(continued)

CSX Transportation

Job No: F91846

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91846-7FD	04/04/12	16:15	WK	04/05/12	AQ	Water Dup/MSD	MW-34A (040412)
F91846-7FS	04/04/12	16:15	WK	04/05/12	AQ	Water Matrix Spike	MW-34A (040412)
F91846-7S	04/04/12	16:15	WK	04/05/12	AQ	Water Matrix Spike	MW-34A (040412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91846

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/18/2012 3:01:22 PM

5 Samples and 2 Trip Blanks were collected on 04/04/2012 and were received at Accutest SE on 04/05/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F91846. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2431

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41319

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP41319-MS, OP41319-MSD, F91846-7 have surrogates outside control limits. Probable cause is due to matrix interference.

F91846-7: Dilution required due to matrix interference.

F91846-7 for 2-Fluorophenol: Outside control limits due to dilution.

F91846-7 for Phenol-d5: Outside control limits due to dilution.

F91846-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91846-7 for Nitrobenzene-d5: Outside control limits due to dilution.

F91846-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91846-7 for Terphenyl-d14: Outside control limits due to dilution.

OP41319-MS/MSD for Phenol-d5: Outside control limits due to dilution.

OP41319-MSD for 2-Fluorophenol: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Pentachlorophenol are outside control limits for sample OP41320-MSD. Probable cause due to sample non-homogeneity.

Sample(s) F91846-4, F91846-5, F91846-7, OP41320-MS, OP41320-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41320-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Acenaphthylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(a)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(b)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(g,h,i)perylene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Benzo(k)fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Chrysene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Dibenzo(a,h)anthracene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluoranthene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Fluorene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Indeno(1,2,3-cd)pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2-Methylnaphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Naphthalene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Phenanthrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for Pyrene: Spike recoveries corrected for actual spike amount.

OP41320-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41320-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41320-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MS for Terphenyl-d14: Outside control limits due to dilution.

OP41320-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41320-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP41320-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41320-MSD for Terphenyl-d14: Outside control limits due to dilution.

F91846-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91846-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91846-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91846-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91846-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91846-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91846-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91846-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91846-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41320

F91846-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91846-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91846-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91846-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91846-4 for Nitrobenzene-d5: Outside control limits due to dilution.

F91846-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91846-4 for Terphenyl-d14: Outside control limits due to dilution.

F91846-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91846-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91846-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91846-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91846-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91846-5 for Nitrobenzene-d5: Outside control limits due to dilution.

F91846-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91846-5 for Terphenyl-d14: Outside control limits due to dilution.

F91846-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91846-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91846-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91846-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91846-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91846-7 for Nitrobenzene-d5: Outside control limits due to dilution.

F91846-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91846-7 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22574

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91990-1DUP, F91990-1MS, F91990-1MSD, F91990-1PS, F91990-1SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP22583

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD, F91846-7PS, F91846-7SDL, F91846-7DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic, Lead are outside control limits for sample MP22583-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP22583-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP22588

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7FDUP, F91846-7FMS, F91846-7FMSD, F91846-7FPS, F91846-7FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: April 19, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	F91846-1	**Date Sampled:**	04/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058746.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (040412)		
Lab Sample ID:	F91846-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058748.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A (040412)
Lab Sample ID: F91846-2 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031091.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (040412)		
Lab Sample ID:	F91846-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064638.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (040412)		
Lab Sample ID:	F91846-2	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37A (040412)		
Lab Sample ID:	F91846-2F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (040412)		
Lab Sample ID:	F91846-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058749.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0728	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (040412)
Lab Sample ID:	F91846-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/04/12
Date Received:	04/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031092.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	0.0126	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (040412)		
Lab Sample ID:	F91846-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064639.D	1	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0243	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	0.0034	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	0.0190	0.0010	mg/l	
91-20-3	Naphthalene	0.0040	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	91% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (040412)		
Lab Sample ID:	F91846-3	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (040412)		
Lab Sample ID:	F91846-3F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (040412)		
Lab Sample ID:	F91846-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058750.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0129	0.0050	mg/l	
108-88-3	Toluene	0.0499	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0218	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0739	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (040412)
Lab Sample ID:	F91846-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/04/12
Date Received:	04/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031093.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	0.0095	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	0.0305	0.0050	mg/l	
132-64-9	Dibenzofuran	0.0205	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (040412)
Lab Sample ID:	F91846-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	Date Sampled:	04/04/12
	Date Received:	04/05/12
	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064640.D	4	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2	W064699.D	40	04/12/12	MG	04/10/12	OP41320	SW3161

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0040	mg/l	
83-32-9	Acenaphthene	0.0297	0.0040	mg/l	
208-96-8	Acenaphthylene	0.0043	0.0040	mg/l	
120-12-7	Anthracene	ND	0.0040	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00080	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00080	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00080	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00080	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00080	mg/l	
218-01-9	Chrysene	ND	0.00080	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00080	mg/l	
206-44-0	Fluoranthene	ND	0.0040	mg/l	
86-73-7	Fluorene	0.0160	0.0040	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00080	mg/l	
91-57-6	2-Methylnaphthalene	0.0459	0.0040	mg/l	
91-20-3	Naphthalene	0.975 [a]	0.040	mg/l	
85-01-8	Phenanthrene	0.0112	0.0040	mg/l	
129-00-0	Pyrene	ND	0.0040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	50% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	61% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	65% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (040412)		
Lab Sample ID:	F91846-4	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (040412)		
Lab Sample ID:	F91846-4F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-26A (040412)		
Lab Sample ID:	F91846-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058751.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0222	0.0050	mg/l	
108-88-3	Toluene	0.0740	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0306	0.0050	mg/l	
1330-20-7	Xylene (total)	0.101	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A (040412)		
Lab Sample ID:	F91846-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031094.D	1	04/13/12	NAF	04/10/12	OP41319	SU1481
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	0.0421	0.0050	mg/l	
95-48-7	2-Methylphenol	0.0069	0.0050	mg/l	
	3&4-Methylphenol	0.0084	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	0.0508	0.0050	mg/l	
132-64-9	Dibenzofuran	0.0272	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	88%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-26A (040412)
Lab Sample ID: F91846-5 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064641.D	4	04/11/12	MG	04/10/12	OP41320	SW3159
Run #2	W064700.D	40	04/12/12	MG	04/10/12	OP41320	SW3161

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0907	0.0040	mg/l	
83-32-9	Acenaphthene	0.0393	0.0040	mg/l	
208-96-8	Acenaphthylene	0.0085	0.0040	mg/l	
120-12-7	Anthracene	0.0040	0.0040	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00080	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00080	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00080	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00080	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00080	mg/l	
218-01-9	Chrysene	ND	0.00080	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00080	mg/l	
206-44-0	Fluoranthene	0.0073	0.0040	mg/l	
86-73-7	Fluorene	0.0251	0.0040	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00080	mg/l	
91-57-6	2-Methylnaphthalene	0.0591	0.0040	mg/l	
91-20-3	Naphthalene	1.14 [a]	0.040	mg/l	
85-01-8	Phenanthrene	0.0274	0.0040	mg/l	
129-00-0	Pyrene	ND	0.0040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	64% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	75% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	70% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A (040412)		
Lab Sample ID:	F91846-5	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-26A (040412)		
Lab Sample ID:	F91846-5F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/12/12	04/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9709
(2) Prep QC Batch: MP22574

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	F91846-6	**Date Sampled:**	04/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058747.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (040412)
Lab Sample ID: F91846-7 **Date Sampled:** 04/04/12
Matrix: AQ - Ground Water **Date Received:** 04/05/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0058752.D	1	04/11/12	RB	n/a	n/a	VN2431
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0767	0.0050	mg/l	
108-88-3	Toluene	0.0368	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0639	0.0050	mg/l	
1330-20-7	Xylene (total)	0.156	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (040412)		
Lab Sample ID:	F91846-7	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031117.D	20	04/15/12	NAF	04/10/12	OP41319	SU1482
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.095	mg/l	
105-67-9	2,4-Dimethylphenol	0.123	0.095	mg/l	
95-48-7	2-Methylphenol	ND	0.095	mg/l	
	3&4-Methylphenol	ND	0.095	mg/l	
108-95-2	Phenol	ND	0.095	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.095	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.095	mg/l	
86-74-8	Carbazole	ND	0.095	mg/l	
132-64-9	Dibenzofuran	ND	0.095	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-62%
4165-62-2	Phenol-d5	0% [b]		10-40%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (040412)		
Lab Sample ID:	F91846-7	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W064701.D	40	04/12/12	MG	04/10/12	OP41320	SW3161
Run #2	R33785.D	200	04/13/12	MRE	04/10/12	OP41320	SR1617

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.038	mg/l	
83-32-9	Acenaphthene	0.0819	0.038	mg/l	
208-96-8	Acenaphthylene	ND	0.038	mg/l	
120-12-7	Anthracene	ND	0.038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0076	mg/l	
218-01-9	Chrysene	ND	0.0076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0076	mg/l	
206-44-0	Fluoranthene	ND	0.038	mg/l	
86-73-7	Fluorene	ND	0.038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0076	mg/l	
91-57-6	2-Methylnaphthalene	0.150	0.038	mg/l	
91-20-3	Naphthalene	3.11 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.038	mg/l	
129-00-0	Pyrene	ND	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (040412)		
Lab Sample ID:	F91846-7	**Date Sampled:**	04/04/12
Matrix:	AQ - Ground Water	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (040412)		
Lab Sample ID:	F91846-7F	**Date Sampled:**	04/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91846

Cooler 1 of 2

CSX TRANSPORTATION CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: #941/5829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwasenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: END 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant.Griggs@arcadis-us.com
Email: Bryant Griggs
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Pres. Code: Note → 0 1 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 * (Site IDs Only)	Total Metals (6010/As+Pb)	Dissolved Metals 6010/(As+Pb) ++	COMMENTS	LAB USE
1	TRIP BLANK-1	2	4/04/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
2	MW-37A(040412)	7	4/04/12	0910	WK	N	G	GW	X	X	X	X		
3	MW-37B(040412)	7	4/04/12	0945	WK	N	G	GW	X	X	X	X		
4	MW-37C(040412)	7	4/04/12	1030	WK	N	G	GW	X	X	X	X		
5	MW-26A(040412)	7	4/04/12	1120	WK	N	G	GW	X	X	X	X		
6	TRIP BLANK-2	2	4/04/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
7	MW-34A(040412)	21	4/04/12	1615	WK	N	G	GW	X	X	X	X	*MS/MSD	
													WK 4/4/12	

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	04/04/12 1400	FX		*SEE TABLE FOR SITE COCs
Relinquished By: FX	04-05-12 0900		04-05-12 0900	++ LAB FILTER AND PRESERVE
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

28.3.4

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91846: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91846 CLIENT: Arcadis PROJECT: IN-Creosote

DATE/TIME RECEIVED: 04-05-12 0900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6263 0944 7957 6263 0922

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK 2
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0 3.6
- [ ] CORRECTED TEMPS: 2.8 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [x] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: Sample #7 Received 2 Broken Ambers (8270)

TECHNICIAN SIGNATURE/DATE: C.R. Wellman 04-05-12 REVIEWER SIGNATURE/DATE: L Haas 04/05/12

NF 12/10

receipt confirmation 122910.xls

F91846: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST LABORATORIES

04/19/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91900

Sampling Date: 04/05/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **48**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91900

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91900-1	04/05/12	00:00	WK	04/06/12	AQ	Trip Blank Water	TRIP BLANK-1
F91900-2	04/05/12	09:15	WK	04/06/12	AQ	Ground Water	MW-38C (040512)
F91900-2F	04/05/12	09:15	WK	04/06/12	AQ	Groundwater Filtered	MW-38C (040512)
F91900-3	04/05/12	10:15	WK	04/06/12	AQ	Ground Water	MW-38D (040512)
F91900-3F	04/05/12	10:15	WK	04/06/12	AQ	Groundwater Filtered	MW-38D (040512)
F91900-4	04/05/12	10:50	WK	04/06/12	AQ	Ground Water	MW-38B (040512)
F91900-4F	04/05/12	10:50	WK	04/06/12	AQ	Groundwater Filtered	MW-38B (040512)
F91900-5	04/05/12	11:40	WK	04/06/12	AQ	Ground Water	MW-38A (040512)
F91900-5F	04/05/12	11:40	WK	04/06/12	AQ	Groundwater Filtered	MW-38A (040512)
F91900-6	04/05/12	00:00	WK	04/06/12	AQ	Ground Water	DUP-01 (040512)
F91900-6F	04/05/12	00:00	WK	04/06/12	AQ	Groundwater Filtered	DUP-01 (040512)
F91900-7	04/05/12	12:50	WK	04/06/12	AQ	Ground Water	MW-41A (040512)
F91900-7F	04/05/12	12:50	WK	04/06/12	AQ	Groundwater Filtered	MW-41A (040512)

Sample Summary
(continued)

CSX Transportation

Job No: F91900

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91900-8	04/05/12	00:00	WK	04/06/12	AQ	Trip Blank Water	TRIP BLANK-2
F91900-9	04/05/12	13:45	WK	04/06/12	AQ	Ground Water	MW-39B (040512)
F91900-9F	04/05/12	13:45	WK	04/06/12	AQ	Groundwater Filtered	MW-39B (040512)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91900

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/19/2012 9:57:00 AM

7 Samples and 2 Trip Blanks were collected on 04/05/2012 and were received at Accutest SE on 04/06/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F91900. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VB3385

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91898-15MS, F91898-15MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VP272

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91859-10MS were used as the QC samples indicated.

VP272-BS: No available MSD.

Matrix: AQ **Batch ID:** VP273

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91929-1MS, F91929-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41337

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-6MS, F91900-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP41337-BS, OP41337-MS, OP41337-MSD have surrogates outside control limits.

F91900-4: Dilution required due to high PAH levels.

F91900-5: Dilution required due to high PAH levels.

F91900-6: Dilution required due to high PAH levels.

OP41337-BS for Phenol-d5: Outside control limits.

OP41337-MS/MSD for 2-Fluorophenol: Outside control limits due to dilution.

OP41337-MS/MSD for Phenol-d5: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

Sample(s) F91900-7MS, F91900-7MSD were used as the QC samples indicated.

Sample(s) F91900-4, F91900-5, F91900-6 have surrogates outside control limits. Probable cause is due to matrix interference.

OP41338-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91900-2 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91900-3 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91900-4 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

F91900-5 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

F91900-6 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

F91900-7 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91900-9 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22583

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7MS, F91846-7MSD, F91846-7PS, F91846-7SDL, F91846-7DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic, Lead are outside control limits for sample MP22583-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP22583-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP22588

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7FDUP, F91846-7FMS, F91846-7FMSD, F91846-7FPS, F91846-7FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 19, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK-1		
Lab Sample ID:	F91900-1	**Date Sampled:**	04/05/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P6615.D	1	04/13/12	EG	n/a	n/a	VP273
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (040512)		
Lab Sample ID:	F91900-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082486.D	1	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (040512)		
Lab Sample ID:	F91900-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056794.D	1	04/12/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (040512)		
Lab Sample ID:	F91900-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33728.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (040512)		
Lab Sample ID:	F91900-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (040512)		
Lab Sample ID:	F91900-2F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (040512)		
Lab Sample ID:	F91900-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082487.D	1	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (040512)		
Lab Sample ID:	F91900-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056795.D	1	04/12/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	35%		10-40%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	90%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (040512)		
Lab Sample ID:	F91900-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33729.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	82% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (040512)		
Lab Sample ID:	F91900-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (040512)		
Lab Sample ID:	F91900-3F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (040512)		
Lab Sample ID:	F91900-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082488.D	1	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (040512)		
Lab Sample ID:	F91900-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X023021.D	10	04/13/12	FS	04/11/12	OP41337	SX1123
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.131	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.147	0.048	mg/l	
132-64-9	Dibenzofuran	0.0968	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	88%		42-108%
321-60-8	2-Fluorobiphenyl	93%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38B (040512)
Lab Sample ID: F91900-4 **Date Sampled:** 04/05/12
Matrix: AQ - Ground Water **Date Received:** 04/06/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33730.D	100	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2	R33779.D	200	04/13/12	MRE	04/11/12	OP41338	SR1617

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.233	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.264	0.095	mg/l	
91-20-3	Naphthalene	7.03 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (040512)		
Lab Sample ID:	F91900-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (040512)		
Lab Sample ID:	F91900-4F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A (040512)		
Lab Sample ID:	F91900-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082489.D	2	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.117	0.010	mg/l	
108-88-3	Toluene	0.0127	0.010	mg/l	
100-41-4	Ethylbenzene	0.126	0.010	mg/l	
1330-20-7	Xylene (total)	0.268	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (040512)		
Lab Sample ID:	F91900-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X023022.D	10	04/13/12	FS	04/11/12	OP41337	SX1123
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.134	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.212	0.048	mg/l	
132-64-9	Dibenzofuran	0.0973	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	87%		42-108%
321-60-8	2-Fluorobiphenyl	91%		40-106%
1718-51-0	Terphenyl-d14	99%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38A (040512)
Lab Sample ID: F91900-5 **Date Sampled:** 04/05/12
Matrix: AQ - Ground Water **Date Received:** 04/06/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33731.D	100	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2	R33780.D	200	04/13/12	MRE	04/11/12	OP41338	SR1617

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.212	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.231	0.095	mg/l	
91-20-3	Naphthalene	5.89 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (040512)		
Lab Sample ID:	F91900-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A (040512)		
Lab Sample ID:	F91900-5F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-01 (040512)		
Lab Sample ID:	F91900-6	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082490.D	2	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.117	0.010	mg/l	
108-88-3	Toluene	0.0126	0.010	mg/l	
100-41-4	Ethylbenzene	0.122	0.010	mg/l	
1330-20-7	Xylene (total)	0.255	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01 (040512)		
Lab Sample ID:	F91900-6	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X023023.D	10	04/13/12	FS	04/11/12	OP41337	SX1123
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.114	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.185	0.048	mg/l	
132-64-9	Dibenzofuran	0.0869	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01 (040512)		
Lab Sample ID:	F91900-6	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33732.D	100	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2	R33781.D	200	04/13/12	MRE	04/11/12	OP41338	SR1617

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.096	mg/l	
83-32-9	Acenaphthene	0.216	0.096	mg/l	
208-96-8	Acenaphthylene	ND	0.096	mg/l	
120-12-7	Anthracene	ND	0.096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.096	mg/l	
86-73-7	Fluorene	ND	0.096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.227	0.096	mg/l	
91-20-3	Naphthalene	5.36 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.096	mg/l	
129-00-0	Pyrene	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-01 (040512)		
Lab Sample ID:	F91900-6	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-01 (040512)		
Lab Sample ID:	F91900-6F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (040512)		
Lab Sample ID:	F91900-7	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082491.D	1	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (040512)
Lab Sample ID: F91900-7 **Date Sampled:** 04/05/12
Matrix: AQ - Ground Water **Date Received:** 04/06/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056801.D	1	04/12/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (040512)		
Lab Sample ID:	F91900-7	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33733.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	0.0015	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	0.0037	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	45% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (040512)		
Lab Sample ID:	F91900-7	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (040512)		
Lab Sample ID:	F91900-7F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK-2		
Lab Sample ID:	F91900-8	**Date Sampled:**	04/05/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P6589.D	1	04/12/12	EG	n/a	n/a	VP272
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (040512)		
Lab Sample ID:	F91900-9	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B082492.D	2	04/12/12	WV	n/a	n/a	VB3385
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.114	0.010	mg/l	
108-88-3	Toluene	0.0125	0.010	mg/l	
100-41-4	Ethylbenzene	0.117	0.010	mg/l	
1330-20-7	Xylene (total)	0.252	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (040512)		
Lab Sample ID:	F91900-9	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056802.D	1	04/12/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (040512)		
Lab Sample ID:	F91900-9	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33734.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0016	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (040512)		
Lab Sample ID:	F91900-9	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (040512)		
Lab Sample ID:	F91900-9F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91900

1 of 2 Coolers

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs) *	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb) **	COMMENTS	LAB USE
1	TRIP BLANK-1	2	4/05/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
2	MW-38C(040512)	7	4/05/12	0915	WK	N	G	GW	X	X	X	X		
3	MW-38D(040512)	7	4/05/12	1015	WK	N	G	GW	X	X	X	X		
4	MW-38B(040512)	7	4/05/12	1050	WK	N	G	GW	X	X	X	X		
5	MW-38A(040512)	7	4/05/12	1140	WK	N	G	GW	X	X	X	X		
6	DUP-01(040512)	7	4/05/12	—	WK	N	G	GW	X	X	X	X		
7	MW-21A(040512)	7	4/05/12	1255	WK	N	G	GW	X	X	X	X		
8	TRIP BLANK-2	2	4/05/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
9	MW-39B(040512)	7	4/05/12	1345	WK	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:
Relinquished By: Wendy KC	4/5/12 1800	Received By: FX	
Relinquished By: FX	4/6/12 9:00	Received By: Scott Hill ARCADIS	4/6/12 9:00
Relinquished By:		Received By:	
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements:
* SEE ATTACHED TABLE FOR SITE COC's
** LAB FILTER AND PRESERVE

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.2 2.6
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91900: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91900 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/06/12 9:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7955 4430 8869 / 8858

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK (2)
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4 2.8
- [ ] CORRECTED TEMPS: 3.2 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 7

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [signature] 04/06/12 REVIEWER SIGNATURE/DATE [signature] 4-6-12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91900: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F91900: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

04/20/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91901

Sampling Date: 04/05/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **31**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91901

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91901-1	04/05/12	00:00	EG	04/06/12	AQ	Trip Blank Water	TRIP BLANK
F91901-2	04/05/12	10:45	EG	04/06/12	AQ	Ground Water	MW-28A (040512)
F91901-2F	04/05/12	10:45	EG	04/06/12	AQ	Groundwater Filtered	MW-28A (040512)
F91901-3	04/05/12	11:20	EG	04/06/12	AQ	Ground Water	MW-43A (040512)
F91901-3F	04/05/12	11:20	EG	04/06/12	AQ	Groundwater Filtered	MW-43A (040512)
F91901-4	04/05/12	12:30	EG	04/06/12	AQ	Ground Water	MW-32A (040512)
F91901-4F	04/05/12	12:30	EG	04/06/12	AQ	Groundwater Filtered	MW-32A (040512)
F91901-5	04/05/12	13:10	EG	04/06/12	AQ	Ground Water	MW-52A (040512)
F91901-5F	04/05/12	13:10	EG	04/06/12	AQ	Groundwater Filtered	MW-52A (040512)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91901

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/19/2012 9:58:03 AM

4 Sample(s), 1 Trip Blank were collected on 04/05/2012 and were received at Accutest SE on 04/06/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F91901. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VO350

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41337

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-6MS, F91900-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP41337-BS, OP41337-MS, OP41337-MSD have surrogates outside control limits.

OP41337-BS for Phenol-d5: Outside control limits.

OP41337-MS/MSD for 2-Fluorophenol: Outside control limits due to dilution.

OP41337-MS/MSD for Phenol-d5: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-7MS, F91900-7MSD were used as the QC samples indicated.

OP41338-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91901-2 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91901-3 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91901-4 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91901-5 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22588

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7FDUP, F91846-7FMS, F91846-7FMSD, F91846-7FPS, F91846-7FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 19, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91901-1	**Date Sampled:**	04/05/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8122.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (040512)		
Lab Sample ID:	F91901-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8126.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (040512)		
Lab Sample ID:	F91901-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056803.D	1	04/13/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (040512)		
Lab Sample ID:	F91901-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33735.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (040512)		
Lab Sample ID:	F91901-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A (040512)		
Lab Sample ID:	F91901-2F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-43A (040512)		
Lab Sample ID:	F91901-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8127.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0325	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (040512)		
Lab Sample ID:	F91901-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056804.D	1	04/13/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (040512)		
Lab Sample ID:	F91901-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33736.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0036	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0017	0.00095	mg/l	
91-20-3	Naphthalene	0.0085	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (040512)		
Lab Sample ID:	F91901-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-43A (040512)		
Lab Sample ID:	F91901-3F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (040512)		
Lab Sample ID:	F91901-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8128.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (040512)		
Lab Sample ID:	F91901-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056805.D	1	04/13/12	NAF	04/11/12	OP41337	SL2894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (040512)
Lab Sample ID:	F91901-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/05/12
Date Received:	04/06/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33737.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0040	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (040512)		
Lab Sample ID:	F91901-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (040512)		
Lab Sample ID:	F91901-4F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (040512)		
Lab Sample ID:	F91901-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8129.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (040512)		
Lab Sample ID:	F91901-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056828.D	1	04/13/12	NAF	04/11/12	OP41337	SL2895
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A (040512)
Lab Sample ID: F91901-5 **Date Sampled:** 04/05/12
Matrix: AQ - Ground Water **Date Received:** 04/06/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33738.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0042	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (040512)		
Lab Sample ID:	F91901-5	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (040512)		
Lab Sample ID:	F91901-5F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

Red F91901

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: Data CD only, No Hard Copy
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 Site COCs only *	Total Metals As+Pb	Dissolved Metals 6010 - As+Pb **	COMMENTS	LAB USE
1	Trip Blank-2	2	— Lab Supplied —						X					
2	MW-28A(040512)	7	4/5/12	1045	EG	N	G	GW	X	X	X	X		
3	MW-43A(040512)	7	↓	1120	↓	↓	↓	↓	X	X	X	X		
4	MW-32A(040512)	7		1230					X	X	X	X		
5	MW-52A(040512)	7		1310					X	X	X	X		

Relinquished By:	Date Time:	Received By:	Date Time:
Tony Ghnem	4/5/12 1630	FedEx	
Relinquished By:	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
* See Table 1 for site COCs
** Lab filter & preserve dissolved metals

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.0
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91901: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91901 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/06/12 9:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8996 2605 2284

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [signature] 04/06/12 REVIEWER SIGNATURE/DATE _____

NF 12/10 receipt confirmation 122910.xls

4.1 4

F91901: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91901: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/19/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91902

Sampling Date: 04/05/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91902

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91902-1	04/05/12	00:00	EG	04/06/12	AQ	Trip Blank Water	TRIP BLANK
F91902-2	04/05/12	14:20	EG	04/06/12	AQ	Ground Water	MW-50B (040512)
F91902-2F	04/05/12	14:20	EG	04/06/12	AQ	Groundwater Filtered	MW-50B (040512)
F91902-3	04/05/12	14:55	EG	04/06/12	AQ	Ground Water	MW-50A (040512)
F91902-3F	04/05/12	14:55	EG	04/06/12	AQ	Groundwater Filtered	MW-50A (040512)
F91902-4	04/05/12	00:00	EG	04/06/12	AQ	Ground Water	DUP-1 (040512)-EG
F91902-4F	04/05/12	00:00	EG	04/06/12	AQ	Groundwater Filtered	DUP-1 (040512)-EG

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91902

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/18/2012 11:07:41 AM

3 Sample(s), 1 Trip Blank were collected on 04/05/2012 and were received at Accutest SE on 04/06/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F91902. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VO350

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41337

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-6MS, F91900-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP41337-BS, OP41337-MS, OP41337-MSD have surrogates outside control limits.

OP41337-MS for 2-Fluorophenol: Outside control limits due to dilution.

OP41337-MS for Phenol-d5: Outside control limits due to dilution.

OP41337-MSD for 2-Fluorophenol: Outside control limits due to dilution.

OP41337-MSD for Phenol-d5: Outside control limits due to dilution.

OP41337-BS for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-7MS, F91900-7MSD were used as the QC samples indicated.

OP41338-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41338-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41338-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41338-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91902-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91902-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91902-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91902-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

F91902-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91902-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91902-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91902-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91902-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91902-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91902-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91902-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22588

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91846-7FDUP, F91846-7FMS, F91846-7FMSD, F91846-7FPS, F91846-7FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 18, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91902-1	**Date Sampled:**	04/05/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8123.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (040512)		
Lab Sample ID:	F91902-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8130.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (040512)		
Lab Sample ID:	F91902-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056829.D	1	04/13/12	NAF	04/11/12	OP41337	SL2895
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		14-62%
4165-62-2	Phenol-d5	37%		10-40%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (040512)		
Lab Sample ID:	F91902-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33739.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00019	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0017	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (040512)		
Lab Sample ID:	F91902-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0126	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (040512)		
Lab Sample ID:	F91902-2F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (040512)		
Lab Sample ID:	F91902-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8131.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (040512)		
Lab Sample ID:	F91902-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056830.D	1	04/13/12	NAF	04/11/12	OP41337	SL2895
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (040512)		
Lab Sample ID:	F91902-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33740.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	45% [a]		40-106%
1718-51-0	Terphenyl-d14	58% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (040512)		
Lab Sample ID:	F91902-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (040512)		
Lab Sample ID:	F91902-3F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040512)-EG		
Lab Sample ID:	F91902-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8132.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040512)-EG		
Lab Sample ID:	F91902-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056831.D	1	04/13/12	NAF	04/11/12	OP41337	SL2895
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040512)-EG
Lab Sample ID:	F91902-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/05/12
Date Received:	04/06/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33741.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	ND	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00099	mg/l	
91-20-3	Naphthalene	0.0014	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040512)-EG		
Lab Sample ID:	F91902-4	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0131	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040512)-EG		
Lab Sample ID:	F91902-4F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/13/12	04/13/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9710
(2) Prep QC Batch: MP22588

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

Green F91902

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwrzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
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Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6504

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data QC only, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other ____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ 1 0 2 0
Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	VOCs 8260	SVOCs 8270 * Site COCs only	Total Metals (6010 As+Pb)	Dissolved Metals (6010-As+Pb) **	COMMENTS	LAB USE
1	Trip Blank-3	2	Lab Supplied			—	—	—	X					
2	MW-50B (040512)	7	4/5/12	1420	EG	N	G	GW	X	X	X	X		
3	MW-50A (040512)	7	↓	1455	↓	↓	↓	↓	X	X	X	X		
4	DUP-1 (040512)-EG	7	↓	—	↓	↓	↓	↓	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Greg Greer	4/5/12 1630	Received By: FedEx		* See Table 1 for site COCs
Relinquished By: FX	04/06/12 9:00	Received By: Jeff Hill AECOM	4/6/12 9:00	** Lab filter & preserve dissolved metals
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.4 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91902: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91902 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/06/12 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7955 4430 8870

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE Scott Hill 04/06/12 REVIEWER SIGNATURE/DATE JC 4.6.12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91902: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.816	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91902: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

04/20/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91903

Sampling Date: 04/05/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91903

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91903-1	04/05/12	00:00	EG	04/06/12	AQ	Trip Blank Water	TRIP BLANK
F91903-2	04/05/12	09:15	EG	04/06/12	AQ	Ground Water	MW-28B (040512)
F91903-3	04/05/12	09:50	EG	04/06/12	AQ	Ground Water	MW-28C (040512)
F91903-3D	04/05/12	09:50	EG	04/06/12	AQ	Water Dup/MSD	MW-28C (040512)
F91903-3F	04/05/12	09:50	EG	04/06/12	AQ	Groundwater Filtered	MW-28C (040512)
F91903-3FD	04/05/12	09:50	EG	04/06/12	AQ	Water Dup/MSD	MW-28C (040512)
F91903-3FS	04/05/12	09:50	EG	04/06/12	AQ	Water Matrix Spike	MW-28C (040512)
F91903-3S	04/05/12	09:50	EG	04/06/12	AQ	Water Matrix Spike	MW-28C (040512)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91903

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/20/2012 1:40:38 PM

2 Samples and 1 Trip Blank were collected on 04/05/2012 and were received at Accutest SE on 04/06/2012 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F91903. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VO350

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41337

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-6MS, F91900-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP41337-BS, OP41355-MS, OP41355-MSD, OP41337-MS, OP41337-MSD, OP41337-BS have surrogates outside control limits.

OP41337-BS for Phenol-d5: Outside control limits.

OP41337-MS/MSD for 2-Fluorophenol: Outside control limits due to dilution.

OP41337-MS/MSD for Phenol-d5: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP41355

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Sample(s) OP41337-BS, OP41355-MS, OP41355-MSD, OP41337-MS, OP41337-MSD, OP41337-BS have surrogates outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41338

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91900-7MS, F91900-7MSD were used as the QC samples indicated.

OP41338-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91903-2 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14:: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41357

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

OP41357-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91903-3 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14:: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22601

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3DUP, F91903-3MS, F91903-3MSD, F91903-3PS, F91903-3SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP22601-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP22601-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP22602

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3FDUP, F91903-3FMS, F91903-3FMSD, F91903-3FPS, F91903-3FSDL, F91937-2FPS, F91937-2FSDL, F91937-2PS, F91937-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 20, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91903-1	**Date Sampled:**	04/05/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8124.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (040512)		
Lab Sample ID:	F91903-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8133.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0749	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0132	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0170	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (040512)
Lab Sample ID:	F91903-2
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/05/12
Date Received:	04/06/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056832.D	1	04/13/12	NAF	04/11/12	OP41337	SL2895
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0421	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0077	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (040512)		
Lab Sample ID:	F91903-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33742.D	1	04/12/12	MG	04/11/12	OP41338	SR1616
Run #2	R33782.D	2	04/13/12	MRE	04/11/12	OP41338	SR1617

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0593 [a]	0.0019	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	0.0156	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0518 [a]	0.0019	mg/l	
91-20-3	Naphthalene	0.0294	0.00097	mg/l	
85-01-8	Phenanthrene	0.0069	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [b]	91% [b]	33-118%
4165-60-0	Nitrobenzene-d5	70% [b]	79% [b]	42-108%
321-60-8	2-Fluorobiphenyl	63% [b]	77% [b]	40-106%
1718-51-0	Terphenyl-d14	71% [b]	80% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (040512)		
Lab Sample ID:	F91903-2	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22601

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28C (040512)		
Lab Sample ID:	F91903-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8134.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28C (040512)
Lab Sample ID: F91903-3 **Date Sampled:** 04/05/12
Matrix: AQ - Ground Water **Date Received:** 04/06/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031125.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (040512)		
Lab Sample ID:	F91903-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33927.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (040512)		
Lab Sample ID:	F91903-3	**Date Sampled:**	04/05/12
Matrix:	AQ - Ground Water	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22601

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28C (040512)		
Lab Sample ID:	F91903-3F	**Date Sampled:**	04/05/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/06/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22602

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

Blue F91903

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 6 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCS 8270 (site COCs only)	Total Metals (6010 As+Pb)	Dissolved Metals (6010 As+Pb)**	COMMENTS	LAB USE
1	Trip Blank-1	2	— Lab Supplied —						X					
2	MW-28B (040512)	6	4/5/12	915	EG	N	G	GW	X	X	X			
3	MW-28C (040512)	21	4/5/12	950	EG	N	G	GW	X	X	X	X	MS/MSD	

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Emily Lyne	4/5/12 1630	Fed EX	
2	FX	04/06/12 9:00	Scott Hill ALSE	04/06/12 9:00
3				

Received By Laboratory: — Date Time: — Lab Remarks:

Comments & Special Analytical Requirements:
*See Table 1 for site COCs
** Lab filter & preserve dissolved metals

LAB USE: Custody Intact ☐ Yes ☐ No — Custody Seal # — LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.6 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F91903: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91903 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/06/12 9:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7955 4430 8880

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.9
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 3

NUMBER OF LAB FILTERED METALS ?

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 04/06/12 REVIEWER SIGNATURE/DATE RS 4-6-12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91903: Chain of Custody

Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91903: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/20/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91935

Sampling Date: 04/06/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **31**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91935

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91935-1	04/06/12	00:00	EG	04/07/12	AQ	Trip Blank Water	TRIP BLANK
F91935-2	04/06/12	09:10	EG	04/07/12	AQ	Ground Water	MW-44A (040612)
F91935-2F	04/06/12	09:10	EG	04/07/12	AQ	Groundwater Filtered	MW-44A (040612)
F91935-3	04/06/12	09:50	EG	04/07/12	AQ	Ground Water	MW-35A (040612)
F91935-3F	04/06/12	09:50	EG	04/07/12	AQ	Groundwater Filtered	MW-35A (040612)
F91935-4	04/06/12	10:20	EG	04/07/12	AQ	Ground Water	MW-35C (040612)
F91935-4F	04/06/12	10:20	EG	04/07/12	AQ	Groundwater Filtered	MW-35C (040612)
F91935-5	04/06/12	00:00	EG	04/07/12	AQ	Ground Water	DUP-1 (040612)-EG
F91935-5F	04/06/12	00:00	EG	04/07/12	AQ	Groundwater Filtered	DUP-1 (040612)-EG

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91935

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/20/2012 1:41:58 PM

4 Samples and 1 Trip Blank were collected on 04/06/2012 and were received at Accutest SE on 04/07/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F91935. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VO350

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41355

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Sample(s) OP41355-MS, OP41355-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41357

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

OP41357-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14 : Surrogate recoveries corrected for actual spike amount.

F91935-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91935-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91935-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91935-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91935-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91935-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91935-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91935-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91935-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91935-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91935-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91935-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91935-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91935-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91935-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91935-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22593

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91939-1DUP, F91939-1MS, F91939-1MSD, F91939-1PS, F91939-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 20, 2012

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91935-1	**Date Sampled:**	04/06/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8125.D	1	04/12/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (040612)		
Lab Sample ID:	F91935-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8135.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (040612)		
Lab Sample ID:	F91935-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031130.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (040612)		
Lab Sample ID:	F91935-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33930.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0059	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (040612)		
Lab Sample ID:	F91935-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (040612)		
Lab Sample ID:	F91935-2F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (040612)		
Lab Sample ID:	F91935-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8136.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (040612)		
Lab Sample ID:	F91935-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031131.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	19%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (040612)		
Lab Sample ID:	F91935-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33931.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0061	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (040612)		
Lab Sample ID:	F91935-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (040612)		
Lab Sample ID:	F91935-3F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (040612)		
Lab Sample ID:	F91935-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8137.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (040612)
Lab Sample ID:	F91935-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/06/12
Date Received:	04/07/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031132.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (040612)		
Lab Sample ID:	F91935-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33932.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0038	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (040612)		
Lab Sample ID:	F91935-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (040612)		
Lab Sample ID:	F91935-4F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040612)-EG		
Lab Sample ID:	F91935-5	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O8138.D	1	04/13/12	MM	n/a	n/a	VO350
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040612)-EG		
Lab Sample ID:	F91935-5	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031133.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	19%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040612)-EG		
Lab Sample ID:	F91935-5	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33933.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0055	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (040612)-EG		
Lab Sample ID:	F91935-5	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (040612)-EG		
Lab Sample ID:	F91935-5F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/16/12	04/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9714
(2) Prep QC Batch: MP22593

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91935

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 291 E. Ohio St. Suite 800
City, State, Zip: Indpls, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ 1 0 2 0
Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	VOCs 8260	SVOCs 8270 Site COCs only	Total Metals 6010 As+Pb	Dissolved Metals 6010 As+Pb	COMMENTS	LAB USE
1	Trip Blank - 1	2	— Lab Supplied —						X					
2	MW-44A (040612)	7	4/6/12	910	EG	N	G	GW	X	X	X	X		
3	MW-35A (040612)	7	↓	950	↓	↓	↓	↓	X	X	X	X		
4	MW-35C (040612)	7		1020					X	X	X	X		
5	DUP-1 (040612)-EG	7	↓	—	↓	↓	↓	↓	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Eng Lyne	4/6/12 1300	Received By: FedEx		* See table 1 for site COCs
Relinquished By: FX	4/7/12 11:00	Received By: Jeff Hill ALSE	4/7/12 11:00	** Lab filter & preserve dissolved metals
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

3.0

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

Send Atten DnDoP

4.1 4

F91935: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91935 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/07/12 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8996 2605 2273

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 4

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 04/07/12 REVIEWER SIGNATURE/DATE: 04/07/12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91935: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibenzofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91935: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/24/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91937

Sampling Date: 04/06/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **16**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91937

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F91937-1	04/06/12	00:00	EG	04/07/12	AQ	Trip Blank Water	TRIP BLANK
F91937-2	04/06/12	10:50	EG	04/07/12	AQ	Ground Water	MW-35B (040612)
F91937-2D	04/06/12	10:50	EG	04/07/12	AQ	Water Dup/MSD	MW-35B (040612)
F91937-2F	04/06/12	10:50	EG	04/07/12	AQ	Groundwater Filtered	MW-35B (040612)
F91937-2FD	04/06/12	10:50	EG	04/07/12	AQ	Water Dup/MSD	MW-35B (040612)
F91937-2FS	04/06/12	10:50	EG	04/07/12	AQ	Water Matrix Spike	MW-35B (040612)
F91937-2S	04/06/12	10:50	EG	04/07/12	AQ	Water Matrix Spike	MW-35B (040612)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91937

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/24/2012 10:03:42 AM

1 Sample, 1 Trip Blank were collected on 04/06/2012 and were received at Accutest SE on 04/07/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F91937. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2372

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91937-2MS, F91937-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41374

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91937-2MS, F91937-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran, Phenol are outside control limits for sample OP41374-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F91937-2, OP41374-MS, OP41374-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F91937-2: Dilution required due to matrix interference.

F91937-2 for Nitrobenzene-d5, Terphenyl-d14: Outside control limits due to dilution.

OP41374-MS for 2-Fluorophenol, Phenol-d5, Terphenyl-d14: Outside control limits due to dilution.

OP41374-MSD for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41375

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91937-2MS, F91937-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F91937-2, OP41375-MS, OP41375-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41375-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91937-2: Dilution required due to matrix interference.

F91937-2 for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

OP41375-MS/OP41375-MSD for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22602

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91937-2DUP, F91937-2MS, F91937-2MSD, F91937-2SDL, F91937-2PS, F91937-2FMS, F91937-2FMSD, F91937-2FSDL, F91937-2FPS, F91903-3FSDL, F91903-3FPS, were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 24, 2012

Kim Benham, Client Services (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91937-1	**Date Sampled:**	04/06/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058330.D	1	04/16/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (040612)		
Lab Sample ID:	F91937-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058331.D	1	04/16/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (040612)		
Lab Sample ID:	F91937-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X023114.D	10	04/19/12	FS	04/13/12	OP41374	SX1127
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	ND	0.048	mg/l	
132-64-9	Dibenzofuran	ND	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%		14-62%
4165-62-2	Phenol-d5	11%		10-40%
118-79-6	2,4,6-Tribromophenol	35%		33-118%
4165-60-0	Nitrobenzene-d5	36% [b]		42-108%
321-60-8	2-Fluorobiphenyl	40%		40-106%
1718-51-0	Terphenyl-d14	12% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (040612)		
Lab Sample ID:	F91937-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W064886.D	10	04/20/12	MG	04/13/12	OP41375	SW3168
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0096	mg/l	
83-32-9	Acenaphthene	ND	0.0096	mg/l	
208-96-8	Acenaphthylene	ND	0.0096	mg/l	
120-12-7	Anthracene	ND	0.0096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	ND	0.0096	mg/l	
86-73-7	Fluorene	ND	0.0096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0096	mg/l	
91-20-3	Naphthalene	ND	0.0096	mg/l	
85-01-8	Phenanthrene	ND	0.0096	mg/l	
129-00-0	Pyrene	ND	0.0096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (040612)		
Lab Sample ID:	F91937-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.10	0.10	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.050	0.050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22602

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (040612)		
Lab Sample ID:	F91937-2F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.10	0.10	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.050	0.050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22602

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91937

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St Ste 800
City, State, Zip: Indpls, IN 46204
Project #: IN000072.0661
PM: B. Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [X] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: Data CD only, no hard copy
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note ➡ 1 0 2 0
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	VOCs 8260	SVOCs 8270 SIM	Total Metals 6010 + 7470 Hg**	Dissolved Metals 6010 + 7470 Hg**	COMMENTS	LAB USE
1 Trip Blank-2	2	→ Lab Supplied →						X					
2 MW-35B (040612)	21	4/6/12	1050	EG	N	G	GW	X	X	X	X	MS/MSD Contains Tracer DYE	

Relinquished By:	Date Time:	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * See Table 1 for site COCs ** Lab filter & preserve dissolved metals	
Relinquished By: FX	Date Time: 4/9/12 11:00	Received By: ALSE	Date Time: 4/7/12 11:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.8 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

Stand alone report

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F91937: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91937 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/07/12 11:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED:

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6266 4699

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID #2 #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 04/07/12 REVIEWER SIGNATURE/DATE 04/07/12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F91937: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibenzofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F91937: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

04/20/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F91941

Sampling Date: 04/06/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F91941

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F91941-1	04/06/12	00:00	WK	04/07/12	AQ	Trip Blank Water	TRIP BLANK
F91941-2	04/06/12	08:25	WK	04/07/12	AQ	Ground Water	MW-46A (040612)
F91941-2F	04/06/12	08:25	WK	04/07/12	AQ	Groundwater Filtered	MW-46A (040612)
F91941-3	04/06/12	09:25	WK	04/07/12	AQ	Ground Water	MW-51B (040612)
F91941-3F	04/06/12	09:25	WK	04/07/12	AQ	Groundwater Filtered	MW-51B (040612)
F91941-4	04/06/12	10:25	WK	04/07/12	AQ	Ground Water	MW-36A (040612)
F91941-4F	04/06/12	10:25	WK	04/07/12	AQ	Groundwater Filtered	MW-36A (040612)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F91941

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 4/20/2012 1:42:38 PM

3 Samples and 1 Trip Blank were collected on 04/06/2012 and were received at Accutest SE on 04/07/2012 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of F91941. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2372

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91937-2MS, F91937-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41355

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Sample(s) OP41355-MS, OP41355-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41357

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91903-3MS, F91903-3MSD were used as the QC samples indicated.

Sample(s) F91941-2 has surrogates outside control limits. Probable cause is due to matrix interference.

OP41357-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91941-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F91941-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F91941-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F91941-2 for Terphenyl-d14: Outside control limits due to dilution.

F91941-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91941-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91941-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91941-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F91941-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F91941-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F91941-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F91941-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22600

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F91898-15DUP, F91898-15MS, F91898-15MSD, F91898-15PS, F91898-15SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 20, 2012

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F91941-1	**Date Sampled:**	04/06/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058326.D	1	04/15/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (040612)		
Lab Sample ID:	F91941-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058327.D	1	04/15/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0615	0.0050	mg/l	
108-88-3	Toluene	0.0411	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0287	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0898	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-46A (040612)
Lab Sample ID: F91941-2 **Date Sampled:** 04/06/12
Matrix: AQ - Ground Water **Date Received:** 04/07/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031134.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2	L056922.D	4	04/19/12	NAF	04/12/12	OP41355	SL2900

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0070	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.131 [a]	0.019	mg/l	
95-48-7	2-Methylphenol	0.0199	0.0048	mg/l	
	3&4-Methylphenol	0.0055	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0175	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0213	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%	46%	14-62%
4165-62-2	Phenol-d5	24%	30%	10-40%
118-79-6	2,4,6-Tribromophenol	82%	89%	33-118%
4165-60-0	Nitrobenzene-d5	76%	82%	42-108%
321-60-8	2-Fluorobiphenyl	73%	79%	40-106%
1718-51-0	Terphenyl-d14	83%	89%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (040612)		
Lab Sample ID:	F91941-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33934.D	25	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.024	mg/l	
83-32-9	Acenaphthene	0.0509	0.024	mg/l	
208-96-8	Acenaphthylene	ND	0.024	mg/l	
120-12-7	Anthracene	ND	0.024	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	mg/l	
218-01-9	Chrysene	ND	0.0048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	mg/l	
206-44-0	Fluoranthene	ND	0.024	mg/l	
86-73-7	Fluorene	ND	0.024	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	mg/l	
91-57-6	2-Methylnaphthalene	0.0417	0.024	mg/l	
91-20-3	Naphthalene	0.757	0.024	mg/l	
85-01-8	Phenanthrene	ND	0.024	mg/l	
129-00-0	Pyrene	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (040612)		
Lab Sample ID:	F91941-2	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A (040612)		
Lab Sample ID:	F91941-2F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (040612)		
Lab Sample ID:	F91941-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058328.D	1	04/16/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (040612)
Lab Sample ID:	F91941-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	04/06/12
Date Received:	04/07/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L056923.D	1	04/19/12	NAF	04/12/12	OP41355	SL2900
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0083	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (040612)
Lab Sample ID: F91941-3 **Date Sampled:** 04/06/12
Matrix: AQ - Ground Water **Date Received:** 04/07/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33937.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2	R33935.D	4	04/20/12	MG	04/12/12	OP41357	SR1624

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0146	0.00096	mg/l	
208-96-8	Acenaphthylene	0.0011	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.00099	0.00096	mg/l	
86-73-7	Fluorene	0.0101	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0135	0.00096	mg/l	
91-20-3	Naphthalene	0.0631 [a]	0.0038	mg/l	
85-01-8	Phenanthrene	0.0106	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [b]	86% [b]	33-118%
4165-60-0	Nitrobenzene-d5	66% [b]	68% [b]	42-108%
321-60-8	2-Fluorobiphenyl	63% [b]	72% [b]	40-106%
1718-51-0	Terphenyl-d14	73% [b]	81% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (040612)		
Lab Sample ID:	F91941-3	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (040612)		
Lab Sample ID:	F91941-3F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (040612)		
Lab Sample ID:	F91941-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0058329.D	1	04/16/12	RB	n/a	n/a	VM2372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (040612)		
Lab Sample ID:	F91941-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031136.D	1	04/16/12	FS	04/12/12	OP41355	SU1483
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0073	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0054	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (040612)		
Lab Sample ID:	F91941-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R33936.D	1	04/20/12	MG	04/12/12	OP41357	SR1624
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0214	0.00097	mg/l	
83-32-9	Acenaphthene	0.0128	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	0.0046	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (040612)		
Lab Sample ID:	F91941-4	**Date Sampled:**	04/06/12
Matrix:	AQ - Ground Water	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (040612)		
Lab Sample ID:	F91941-4F	**Date Sampled:**	04/06/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/07/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/17/12	04/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9716
(2) Prep QC Batch: MP22600

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F91941

Cooler 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. Ohio St. Ste. 800
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs Only) *	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb) *	COMMENTS	LAB USE
1	TRIP BLANK	2	4/06/12	—	LAB	N	G	GW	X				LAB SUPPLIED	
2	MW-46A(040612)	7	4/06/12	0825	WK	N	G	GW	X	X	X	X		
3	MW-51B(040612)	7	4/06/12	0925	WK	N	G	GW	X	X	X	X		
4	MW-36A(040612)	7	4/06/12	1025	WK	N	G	GW	X	X	X	X		

WK 4/6/12

Relinquished By: Wesley Kelly	Date Time: 4/6/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * SEE ATTACHED TABLE FOR SITE COCs ** LAB FILTER AND PRESERVE
Relinquished By: FX	Date Time: 4/7/12 11:00	Received By: Ruth Hill NSE	Date Time: 4/7/12 11:00	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.4 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F91941: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F91941 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 04/07/12 11:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6266 4763

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 3

NUMBER OF LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- [ ] IR THERM ID #1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 04/07/12 REVIEWER SIGNATURE/DATE: 04/07/12

NF 12/10

receipt confirmation 122910.xls

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F91941: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L		mg/L
		Industrial	Residential	Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F91941: Chain of Custody
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Southeast ACCUTEST LABORATORIES

05/21/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F92722

Sampling Date: 05/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **31**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F92722

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F92722-1	05/02/12	00:00	DM	05/03/12	AQ	Trip Blank Water	TRIP BLANK-1 (050212) RW
F92722-2	05/02/12	09:30	DM	05/03/12	AQ	Ground Water	MW-54A (050212)
F92722-2F	05/02/12	09:30	DM	05/03/12	AQ	Groundwater Filtered	MW-54A (050212)
F92722-3	05/02/12	09:59	DM	05/03/12	AQ	Ground Water	MW-54B (050212)
F92722-3F	05/02/12	09:59	DM	05/03/12	AQ	Groundwater Filtered	MW-54B (050212)
F92722-4	05/02/12	10:51	DM	05/03/12	AQ	Ground Water	MW-32B (050212)
F92722-4F	05/02/12	10:51	DM	05/03/12	AQ	Groundwater Filtered	MW-32B (050212)
F92722-5	05/02/12	11:18	DM	05/03/12	AQ	Ground Water	MW-32C (050212)
F92722-5F	05/02/12	11:18	DM	05/03/12	AQ	Groundwater Filtered	MW-32C (050212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F92722

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 5/21/2012 8:36:38 AM

4 Samples and 1 Trip Blank were collected on 05/02/2012 and were received at Accutest SE on 05/03/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F92722. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2401

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92939-7MS, F92939-7MSD were used as the QC samples indicated.

Sample(s) F92722-2 has surrogates outside control limits. Probable cause is due to matrix interference.

Matrix: AQ **Batch ID:** VM2402

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-2MS, F92722-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F92722-2 has surrogates outside control limits.

F92722-2 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41709

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92710-1MS, F92710-1MSD were used as the QC samples indicated.

Sample(s) OP41709-MS, OP41709-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F92722-2, F92722-3: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-3MS, F92722-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

Sample(s) F92722-2, F92722-3, OP41710-MS, OP41710-MSD have surrogates outside control limits.

OP41710-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41710-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41710-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41710-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41710-MS for Terphenyl-d14: Outside control limits due to dilution.

OP41710-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41710-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP41710-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41710-MSD for Terphenyl-d14: Outside control limits due to dilution.

F92722-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F92722-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F92722-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F92722-2 for Terphenyl-d14: Outside control limits due to dilution.

F92722-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F92722-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F92722-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F92722-3 for Terphenyl-d14: Outside control limits due to dilution.

F92722-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F92722-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F92722-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F92722-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F92722-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F92722-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F92722-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F92722-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22790

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92714-1DUP, F92714-1MS, F92714-1MSD, F92714-1PS, F92714-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: May 21, 2012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK-1 (050212) RW		
Lab Sample ID:	F92722-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059122.D	1	05/14/12	RB	n/a	n/a	VM2401
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	109%		86-112%
460-00-4	4-Bromofluorobenzene	111%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54A (050212)		
Lab Sample ID:	F92722-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059038.D	1	05/11/12	RB	n/a	n/a	VM2402
Run #2	M0059126.D	10	05/14/12	RB	n/a	n/a	VM2401

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.180 [a]	0.050	mg/l	
108-88-3	Toluene	0.223 [a]	0.050	mg/l	
100-41-4	Ethylbenzene	0.0749 [a]	0.050	mg/l	
1330-20-7	Xylene (total)	0.217 [a]	0.15	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	114%	76-127%
2037-26-5	Toluene-D8	108%	108%	86-112%
460-00-4	4-Bromofluorobenzene	122% [b]	105%	84-120%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54A (050212)		
Lab Sample ID:	F92722-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031698.D	10	05/11/12	NAF	05/08/12	OP41709	SU1507
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.250	0.048	mg/l	
95-48-7	2-Methylphenol	0.0537	0.048	mg/l	
	3&4-Methylphenol	0.0630	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.248	0.048	mg/l	
132-64-9	Dibenzofuran	0.375	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54A (050212)		
Lab Sample ID:	F92722-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065416.D	200	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2	W065417.D	400	05/09/12	MG	05/08/12	OP41710	SW3188

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.617	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	0.921	0.19	mg/l	
56-55-3	Benzo(a)anthracene	0.0821	0.038	mg/l	
50-32-8	Benzo(a)pyrene	0.0396	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0395	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	0.0646	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	0.394	0.19	mg/l	
86-73-7	Fluorene	0.445	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.899	0.19	mg/l	
91-20-3	Naphthalene	9.39 [a]	0.38	mg/l	
85-01-8	Phenanthrene	0.889	0.19	mg/l	
129-00-0	Pyrene	0.267	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54A (050212)		
Lab Sample ID:	F92722-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54A (050212)		
Lab Sample ID:	F92722-2F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (050212)		
Lab Sample ID:	F92722-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059039.D	1	05/11/12	RB	n/a	n/a	VM2402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0781	0.0050	mg/l	
108-88-3	Toluene	0.0213	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0671	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0635	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	109%		86-112%
460-00-4	4-Bromofluorobenzene	111%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (050212)		
Lab Sample ID:	F92722-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031650.D	4	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0535	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0545	0.019	mg/l	
132-64-9	Dibenzofuran	0.0369	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (050212)		
Lab Sample ID:	F92722-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065418.D	50	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.113	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0095	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	ND	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	0.107	0.048	mg/l	
91-20-3	Naphthalene	1.26	0.048	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (050212)		
Lab Sample ID:	F92722-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (050212)		
Lab Sample ID:	F92722-3F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (050212)		
Lab Sample ID:	F92722-4	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059124.D	1	05/14/12	RB	n/a	n/a	VM2401
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	111%		86-112%
460-00-4	4-Bromofluorobenzene	110%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (050212)		
Lab Sample ID:	F92722-4	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031651.D	1	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	55%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	54%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (050212)		
Lab Sample ID:	F92722-4	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065415.D	1	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (050212)		
Lab Sample ID:	F92722-4	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0122	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (050212)		
Lab Sample ID:	F92722-4F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (050212)		
Lab Sample ID:	F92722-5	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059125.D	1	05/14/12	RB	n/a	n/a	VM2401
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	113%		76-127%
2037-26-5	Toluene-D8	110%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (050212)		
Lab Sample ID:	F92722-5	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031652.D	1	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (050212)		
Lab Sample ID:	F92722-5	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065414.D	1	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (050212)		
Lab Sample ID:	F92722-5	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (050212)		
Lab Sample ID:	F92722-5F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F92722

CSX TRANSPORTATION — CHAIN OF CUSTODY — COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415825
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KWIATKOWSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. OHIO ST, STE. 800
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0161.00001
PM: BRYANT WRIGHT
Email: BRYANT.WRIGHT@ARCADIS-US.COM
Phone: 317-231-6508
Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD only; NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Pres. Code — Note ➡ 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (SITE LIST ONLY)	TOTAL METALS 6010 (As+Pb)	DISSOLVED METALS 6010 (As+Pb)	COMMENTS	LAB USE
1	TRIPBLANK-1(050212)RW	2	5-2-12	—	LAB	—	—	—	X				LAB SUPPLIED	
2	MW-54A(050212)	7		0930	RW	N	GRAB	GW	X	X	X	X	PRESERVED ON ICE	
3	MW-54B(050212)	7		0959					X	X	X	X		
4	MW-32B(050212)	7		1051					X	X	X	X		
5	MW-32C(050212)	7	↓	1118	↓	↓	↓	↓	X	X	X	X		

Relinquished By: [signature] / ARCADIS	Date Time: 5-2-12 / 1500	Received By: FX	Date Time:	Comments & Special Analytical Requirements: — SEE TABLE 1 FOR SITE GCL — DISSOLVED METALS: LAB PRESERVED + FILTERED
Relinquished By: FX	Date Time: 5-3-12	Received By: J. Crane (ACCUTEST)	Date Time: 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.0 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F92722: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F 92722 CLIENT: ARCADIS PROJECT: 74158.25

DATE/TIME RECEIVED: 5-3-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 1423 4352

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 5-3-12 REVIEWER SIGNATURE/DATE 05/03/12

NF 12/10 receipt confirmation 122910.xls

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F92722: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F92722: Chain of Custody
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Southeast ACCUTEST LABORATORIES

05/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F92723

Sampling Date: 05/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F92723

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F92723-1	05/02/12	13:30	RW	05/03/12	AQ	Ground Water	MW-56A (050212)
F92723-1F	05/02/12	13:30	RW	05/03/12	AQ	Groundwater Filtered	MW-56A (050212)
F92723-2	05/02/12	13:54	RW	05/03/12	AQ	Ground Water	MW-56B (050212)
F92723-2F	05/02/12	13:54	RW	05/03/12	AQ	Groundwater Filtered	MW-56B (050212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F92723

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 5/17/2012 12:48:41 PM

2 Sample(s) were collected on 05/02/2012 and were received at Accutest SE on 05/03/2012 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F92723. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2402

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-2MS, F92722-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41709

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92710-1MS, F92710-1MSD were used as the QC samples indicated.

Sample(s) OP41709-MS, OP41709-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-3MS, F92722-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP41710-MS, OP41710-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP41710-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41710-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41710-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41710-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41710-MS for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

OP41710-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP41710-MSD for Nitrobenzene-d5: Outside control limits due to dilution.
OP41710-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP41710-MSD for Terphenyl-d14: Outside control limits due to dilution.
F92723-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F92723-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F92723-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F92723-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F92723-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F92723-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F92723-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F92723-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22790

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F92714-1DUP, F92714-1MS, F92714-1MSD, F92714-1PS, F92714-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 17, 2012
Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-56A (050212)		
Lab Sample ID:	F92723-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059049.D	1	05/11/12	RB	n/a	n/a	VM2402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	116%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (050212)		
Lab Sample ID:	F92723-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031653.D	1	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (050212)		
Lab Sample ID:	F92723-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065419.D	1	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0014	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [a]		33-118%
4165-60-0	Nitrobenzene-d5	72% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (050212)		
Lab Sample ID:	F92723-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56A (050212)		
Lab Sample ID:	F92723-1F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (050212)		
Lab Sample ID:	F92723-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059050.D	1	05/11/12	RB	n/a	n/a	VM2402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0197	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	110%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (050212)		
Lab Sample ID:	F92723-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031654.D	1	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (050212)		
Lab Sample ID:	F92723-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065420.D	1	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0160	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (050212)		
Lab Sample ID:	F92723-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (050212)		
Lab Sample ID:	F92723-2F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/15/12	05/15/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9783
(2) Prep QC Batch: MP22790

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F92723 COC # 1 OF 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN OFFSITE
CSXT Contact: PAUL J. KWIATKOWSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. OHIO ST., STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000721.0061.00009
PM: BRYANT GRIBBLE
Email: BRYANT.GRIBBLE@ARCADIS-US.COM
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD only, NO Hard Copy
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	Sulf. Ox. (SITE COCs) 6020	Total Metals (As+Pb) 6010	Dissolved 6010 (As+Pb)	COMMENTS	LAB USE
1	MW-56A (050212)	7	5-2-12	1330	RW	N	GRAB	GW	X	X	X	X	PRESERVED ON ICE	
2	MW-56B (050212)	7	5-2-12	1354	RW	N	GRAB	GW	X	X	X	X		

	Relinquished By:	Date Time:	Received By:	Date Time:
1	ARCADIS	5-2-12 / 1500	FX	
2	FX	5-3-12	J. Cooper (ALSE)	09:30
	Relinquished By:	Date Time:	Received By:	Date Time:
	Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
- PROVIDE DATA IN SEPARATE REPORT
- SEE TABLE 1 FOR SITE COCs
- DISSOLVED METALS: LAB FILTERED PRESERVED

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F92723: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F 92723 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 5-3-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 1427 4363

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 5-3-12 REVIEWER SIGNATURE/DATE [signature] 05/03/12

NF 12/10

receipt confirmation 122910.xls

F92723: Chain of Custody

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Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexy)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F92723: Chain of Custody
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Southeast ACCUTEST LABORATORIES

05/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F92724

Sampling Date: 05/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **21**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F92724

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F92724-1	05/02/12	00:00	RD	05/03/12	AQ	Trip Blank Water	TRIP BLANK (050212) RW
F92724-2	05/02/12	12:10	RD	05/03/12	AQ	Ground Water	MW-55A (050212)
F92724-2F	05/02/12	12:10	RD	05/03/12	AQ	Groundwater Filtered	MW-55A (050212)
F92724-3	05/02/12	12:42	RD	05/03/12	AQ	Ground Water	MW-55B (050212)
F92724-3F	05/02/12	12:42	RD	05/03/12	AQ	Groundwater Filtered	MW-55B (050212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F92724

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 5/18/2012 9:55:58 AM

2 Sample(s), 1 Trip Blank(s) were collected on 05/02/2012 and were received at Accutest SE on 05/03/2012 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F92724. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2401

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92939-7MS, F92939-7MSD were used as the QC samples indicated.

F92724-2: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VM2402

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-2MS, F92722-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP41709

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92710-1MS, F92710-1MSD were used as the QC samples indicated.

Sample(s) OP41709-MS, OP41709-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F92724-3: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92722-3MS, F92722-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike. Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F92724-3, OP41710-MS, OP41710-MSD have surrogates outside control limits. Probable cause due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP41710

OP41710-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP41710-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP41710-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41710-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP41710-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41710-MS for Terphenyl-d14: Outside control limits due to dilution.

OP41710-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP41710-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP41710-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP41710-MSD for Terphenyl-d14: Outside control limits due to dilution.

F92724-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F92724-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F92724-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F92724-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F92724-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F92724-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F92724-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F92724-3 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP22800

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F92778-8DUP, F92778-8FPS, F92778-8FSDL, F92778-8MS, F92778-8MSD, F92778-8PS, F92778-8SDL were used as the QC samples for metals.
Matrix Spike Duplicate Recovery(s) for Lead are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP22800-SD1, MP22800-SD2. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP22800-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP22800-PS2 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** MP22821

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F93021-1DUP, F93021-1MS, F93021-1MSD, F93021-1PS, F93021-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 18, 2012

Kim Benham, Client Services (signature on file)

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK (050212) RW		
Lab Sample ID:	F92724-1	**Date Sampled:**	05/02/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059051.D	1	05/11/12	RB	n/a	n/a	VM2402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	111%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (050212)		
Lab Sample ID:	F92724-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0059121.D	1	05/14/12	RB	n/a	n/a	VM2401
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	112%		76-127%
2037-26-5	Toluene-D8	108%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (050212)		
Lab Sample ID:	F92724-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U031655.D	1	05/09/12	NAF	05/08/12	OP41709	SU1505
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	59%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (050212)		
Lab Sample ID:	F92724-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065421.D	1	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0097	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	0.0011	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0014	0.00097	mg/l	
86-73-7	Fluorene	0.0022	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (050212)		
Lab Sample ID:	F92724-2	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0147	0.010	mg/l	1	05/17/12	05/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0285	0.0050	mg/l	1	05/17/12	05/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9791
(2) Prep QC Batch: MP22821

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55A (050212)		
Lab Sample ID:	F92724-2F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9787
(2) Prep QC Batch: MP22800

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (050212)		
Lab Sample ID:	F92724-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0059056.D	2.5	05/11/12	RB	n/a	n/a	VM2402
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.170	0.013	mg/l	
108-88-3	Toluene	0.167	0.013	mg/l	
100-41-4	Ethylbenzene	0.111	0.013	mg/l	
1330-20-7	Xylene (total)	0.248	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	111%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (050212)		
Lab Sample ID:	F92724-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U031699.D	10	05/11/12	NAF	05/08/12	OP41709	SU1507
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.345	0.048	mg/l	
95-48-7	2-Methylphenol	0.179	0.048	mg/l	
	3&4-Methylphenol	0.181	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.113	0.048	mg/l	
132-64-9	Dibenzofuran	0.0580	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (050212)		
Lab Sample ID:	F92724-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W065422.D	100	05/09/12	MG	05/08/12	OP41710	SW3188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.128	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.219	0.095	mg/l	
91-20-3	Naphthalene	3.56	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (050212)		
Lab Sample ID:	F92724-3	**Date Sampled:**	05/02/12
Matrix:	AQ - Ground Water	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9787
(2) Prep QC Batch: MP22800

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (050212)		
Lab Sample ID:	F92724-3F	**Date Sampled:**	05/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	05/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	05/16/12	05/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9787
(2) Prep QC Batch: MP22800

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F92724

CSX TRANSPORTATION

CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941529
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KWIATKOWSKI
Proj. State (Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 251 E. OHIO ST., STE. 800
City, State, Zip: INDIANAPOLIS, IN
Project #: IN000072.0061.00001
PM: BRYANT GRIGGS
Email: BRYANT.GRIGGS@ARCADIS-US.COM
Phone: 317-231-6500
Fax: 317-271-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD only / NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: 8260 (STEP)	8270 (SITE COCs only)	TOTAL METALS 6010 (4+1B)	DISSOLVED METALS 6010 (4+1B)	COMMENTS	LAB USE
1	TRIP BLANK (050212) RW	2	5-2-12	—	LAB	—	—	—	X				LAB SUPPLIED	
2	MW-55A (050212)	7		1210	RW	N	GRAB	GW	X	X	X	X		
3	MW-55B (050212)	7	↓	1242	RW	N	GRAB	GW	X	X	X	X		

PRESERVED ON ICE

Relinquished By: [signature] / ARCADIS	Date Time: 5-2-12 1500	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 5-3-12	Received By: COOPER (A/SE)	Date Time: 09:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- SEE TASK 1 FOR SITE COCs
- DISSOLVED METALS: LAB FILTER + PRESERVE

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
2.4
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

4.1 4

F92724: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F92724 CLIENT: ARCADIS PROJECT: 9415829

DATE/TIME RECEIVED: 5-3-12 04:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 7127 4363

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 5-3-12 REVIEWER SIGNATURE/DATE [signature] 05/03/12

NF 12/10

receipt confirmation 122910.xls

4.1 4

F92724: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

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F92724: Chain of Custody
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Southeast
ACCUTEST
LABORATORIES

07/30/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F94731

Sampling Date: 07/09/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **56**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F94731

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94731-1	07/09/12	13:40	MW	07/10/12	AQ	Ground Water	MW-53B (07092012)
F94731-1F	07/09/12	13:40	MW	07/10/12	AQ	Groundwater Filtered	MW-53B (07092012)
F94731-2	07/09/12	00:00	MW	07/10/12	AQ	Ground Water	DUP-1 (07092012) WW
F94731-2F	07/09/12	00:00	MW	07/10/12	AQ	Groundwater Filtered	DUP-1 (07092012) WW
F94731-3	07/09/12	13:35	MW	07/10/12	AQ	Ground Water	MW-53A (07092012)
F94731-3D	07/09/12	13:35	MW	07/10/12	AQ	Water Dup/MSD	MW-53A (07092012)
F94731-3F	07/09/12	13:35	MW	07/10/12	AQ	Groundwater Filtered	MW-53A (07092012)
F94731-3FD	07/09/12	13:35	MW	07/10/12	AQ	Groundwater Filtered	MW-53A (07092012)
F94731-3FS	07/09/12	13:35	MW	07/10/12	AQ	Groundwater Filtered	MW-53A (07092012)
F94731-3S	07/09/12	13:35	MW	07/10/12	AQ	Water Matrix Spike	MW-53A (07092012)
F94731-4	07/09/12	14:45	MW	07/10/12	AQ	Ground Water	MW-48B (07092012)
F94731-4D	07/09/12	14:45	MW	07/10/12	AQ	Water Dup/MSD	MW-48B (07092012)
F94731-4F	07/09/12	14:45	MW	07/10/12	AQ	Groundwater Filtered	MW-48B (07092012)

Sample Summary
(continued)

CSX Transportation

Job No: F94731

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94731-4FD	07/09/12	14:45	MW	07/10/12	AQ	Groundwater Filtered	MW-48B (07092012)
F94731-4FS	07/09/12	14:45	MW	07/10/12	AQ	Groundwater Filtered	MW-48B (07092012)
F94731-4S	07/09/12	14:45	MW	07/10/12	AQ	Water Matrix Spike	MW-48B (07092012)
F94731-5	07/09/12	00:00	MW	07/10/12	AQ	Ground Water	DUP-1 (07092012) MW
F94731-5F	07/09/12	00:00	MW	07/10/12	AQ	Groundwater Filtered	DUP-1 (07092012) MW
F94731-6	07/09/12	15:52	MW	07/10/12	AQ	Ground Water	MW-50A (07092012)
F94731-6F	07/09/12	15:52	MW	07/10/12	AQ	Groundwater Filtered	MW-50A (07092012)
F94731-7	07/09/12	16:17	MW	07/10/12	AQ	Ground Water	MW-50B (07092012)
F94731-7F	07/09/12	16:17	MW	07/10/12	AQ	Groundwater Filtered	MW-50B (07092012)
F94731-8	07/09/12	00:00	MW	07/10/12	AQ	Ground Water	DUP-2 (07092012) MW
F94731-8F	07/09/12	00:00	MW	07/10/12	AQ	Groundwater Filtered	DUP-2 (07092012) MW

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job** F94731

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 7/27/2012 7:59:29 AM

8 Samples were collected on 07/09/2012 and were received at Accutest SE on 07/10/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F94731. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS by Method SW846 8260B

Matrix: AQ **Batch ID:** VO444

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94731-3MS, F94731-3MSD, F94731-4MS, F94731-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Toluene is outside control limits. Probable cause due to matrix interference.

Extractables by GCMS by Method SW846 8270D

Matrix: AQ **Batch ID:** OP42634

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F94731-3MS, F94731-3MSD, F94731-4MS, F94731-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) OP42634-MS1, OP42634-MSD1, OP42634-MSD2 have surrogates outside control limits. Probable cause due to matrix interference.

OP42634-MSD1 for Phenol-d5: Outside control limits.

OP42634-MS1 for Phenol-d5: Outside control limits.

OP42634-MSD2 for 2-Fluorophenol: Outside control limits.

OP42634-MSD2 for Phenol-d5: Outside control limits.

Extractables by GCMS by Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42633

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F94731-3MS, F94731-3MSD, F94731-4MS, F94731-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Acenaphthene, Fluorene, Phenanthrene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene, Phenanthrene are outside control limits. Probable cause due to matrix interference.

Matrix Spike and Matrix Spike Duplicate Recovery(s) for Naphthalene is outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) F94731-4, F94731-5, OP42633-MS1, OP42633-MSD1 have surrogates outside control limits. Probable cause due to matrix interference.

OP42633-MB for 2,4,6-Tribromophenol: Spike recoveries corrected for actual spike amount.

OP42633-MB for Terphenyl-d14: Spike recoveries corrected for actual spike amount.

OP42633-MB for 2-Fluorobiphenyl: Spike recoveries corrected for actual spike amount.

OP42633-MB for Nitrobenzene-d5: Spike recoveries corrected for actual spike amount.

Extractables by GCMS by Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42633

OP42633-MS1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP42633-MS1 for Nitrobenzene-d5: Outside control limits due to dilution.
OP42633-MS1 for Terphenyl-d14: Outside control limits due to dilution.
OP42633-MS1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP42633-MSD1 for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP42633-MSD1 for Nitrobenzene-d5: Outside control limits due to dilution.
OP42633-MSD1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP42633-MSD1 for Terphenyl-d14: Outside control limits due to dilution.
F94731-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F94731-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F94731-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-4 for Nitrobenzene-d5: Outside control limits due to dilution.
F94731-5 for Terphenyl-d14: Outside control limits due to dilution.
F94731-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F94731-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-5 for Nitrobenzene-d5: Outside control limits due to dilution.
F94731-4 for Terphenyl-d14: Outside control limits due to dilution.
F94731-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94731-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94731-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94731-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94731-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP23185

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F94731-3DUP, F94731-3MS, F94731-3MSD, F94731-3PS, F94731-3SDL were used as the QC samples for metals.

Metals by Method SW846 6010C

Matrix: AQ **Batch ID:** MP23191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94731-3FDUP, F94731-3FMS, F94731-3FMSD, F94731-3FPS, F94731-3FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:



_____ Date: July 27, 2012

Ellen Pampel, Report Generation Supervisor

Friday, July 27, 2012

Summary of Hits

Job Number: F94731
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/09/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94731-1	**MW-53B (07092012)**					
Acenaphthene		0.0037	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0022	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0038	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0213	0.00095		mg/l	SW846 8270D BY SIM
F94731-1F	**MW-53B (07092012)**					
No hits reported in this sample.						
F94731-2	**DUP-1 (07092012) WW**					
Naphthalene		0.0044	0.00096		mg/l	SW846 8270D BY SIM
F94731-2F	**DUP-1 (07092012) WW**					
No hits reported in this sample.						
F94731-3	**MW-53A (07092012)**					
No hits reported in this sample.						
F94731-3F	**MW-53A (07092012)**					
No hits reported in this sample.						
F94731-4	**MW-48B (07092012)**					
Benzene		0.0087	0.0050		mg/l	SW846 8260B
Toluene		0.0170	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0058	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0187	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0393	0.0048		mg/l	SW846 8270D
Carbazole		0.0141	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0088	0.0048		mg/l	SW846 8270D
2-Methylnaphthalene		0.0313	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.487	0.019		mg/l	SW846 8270D BY SIM
F94731-4F	**MW-48B (07092012)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94731
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/09/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94731-5	**DUP-1 (07092012) MW**					
Benzene		0.0349	0.0050		mg/l	SW846 8260B
Toluene		0.0714	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0247	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0829	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0454	0.0048		mg/l	SW846 8270D
Carbazole		0.0156	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.010	0.0048		mg/l	SW846 8270D
2-Methylnaphthalene		0.0356	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.529	0.019		mg/l	SW846 8270D BY SIM
F94731-5F	**DUP-1 (07092012) MW**					
No hits reported in this sample.						
F94731-6	**MW-50A (07092012)**					
Benzo(b)fluoranthene		0.00026	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
F94731-6F	**MW-50A (07092012)**					
No hits reported in this sample.						
F94731-7	**MW-50B (07092012)**					
No hits reported in this sample.						
F94731-7F	**MW-50B (07092012)**					
No hits reported in this sample.						
F94731-8	**DUP-2 (07092012) MW**					
No hits reported in this sample.						
F94731-8F	**DUP-2 (07092012) MW**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-53B (07092012)
Lab Sample ID: F94731-1 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10534.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53B (07092012)
Lab Sample ID: F94731-1 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058232.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53B (07092012)
Lab Sample ID: F94731-1 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35380.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0037	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0022	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0038	0.00095	mg/l	
91-20-3	Naphthalene	0.0213	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (07092012)		
Lab Sample ID:	F94731-1	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (07092012)		
Lab Sample ID:	F94731-1F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07092012) WW		
Lab Sample ID:	F94731-2	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10535.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (07092012) WW
Lab Sample ID: F94731-2 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058233.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (07092012) WW
Lab Sample ID: F94731-2 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35373.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0044	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07092012) WW		
Lab Sample ID:	F94731-2	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07092012) WW		
Lab Sample ID:	F94731-2F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (07092012)		
Lab Sample ID:	F94731-3	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10536.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (07092012)
Lab Sample ID: F94731-3 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058234.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (07092012)
Lab Sample ID: F94731-3 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35374.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	75% [a]		40-106%
1718-51-0	Terphenyl-d14	78% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (07092012)		
Lab Sample ID:	F94731-3	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (07092012)		
Lab Sample ID:	F94731-3F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-48B (07092012)
Lab Sample ID: F94731-4 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10537.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0087	0.0050	mg/l	
108-88-3	Toluene	0.0170	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0058	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0187	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (07092012)
Lab Sample ID: F94731-4 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058237.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0393	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0141	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0088	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (07092012)
Lab Sample ID: F94731-4 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35375.D	20	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	ND	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	ND	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0313	0.019	mg/l	
91-20-3	Naphthalene	0.487	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (07092012)		
Lab Sample ID:	F94731-4	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (07092012)		
Lab Sample ID:	F94731-4F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07092012) MW		
Lab Sample ID:	F94731-5	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10538.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0349	0.0050	mg/l	
108-88-3	Toluene	0.0714	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0247	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0829	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07092012) MW		
Lab Sample ID:	F94731-5	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058240.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0454	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0156	0.0048	mg/l	
132-64-9	Dibenzofuran	0.010	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07092012) MW		
Lab Sample ID:	F94731-5	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35376.D	20	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	ND	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	ND	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0356	0.019	mg/l	
91-20-3	Naphthalene	0.529	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07092012) MW		
Lab Sample ID:	F94731-5	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07092012) MW		
Lab Sample ID:	F94731-5F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (07092012)		
Lab Sample ID:	F94731-6	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10539.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (07092012)		
Lab Sample ID:	F94731-6	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058241.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50A (07092012)
Lab Sample ID: F94731-6 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35397.D	1	07/20/12	MG	07/13/12	OP42633	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00026	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	0.00019	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	75% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (07092012)		
Lab Sample ID:	F94731-6	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (07092012)		
Lab Sample ID:	F94731-6F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (07092012)		
Lab Sample ID:	F94731-7	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10540.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (07092012)		
Lab Sample ID:	F94731-7	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058242.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50B (07092012)
Lab Sample ID: F94731-7 **Date Sampled:** 07/09/12
Matrix: AQ - Ground Water **Date Received:** 07/10/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35378.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	80% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (07092012)		
Lab Sample ID:	F94731-7	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (07092012)		
Lab Sample ID:	F94731-7F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (07092012) MW		
Lab Sample ID:	F94731-8	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10541.D	1	07/12/12	MM	n/a	n/a	VO444
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07092012) MW		
Lab Sample ID:	F94731-8	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058243.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	84%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07092012) MW		
Lab Sample ID:	F94731-8	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35379.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	90% [a]		40-106%
1718-51-0	Terphenyl-d14	86% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07092012) MW		
Lab Sample ID:	F94731-8	**Date Sampled:**	07/09/12
Matrix:	AQ - Ground Water	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/11/12	07/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9946
(2) Prep QC Batch: MP23185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (07092012) MW		
Lab Sample ID:	F94731-8F	**Date Sampled:**	07/09/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/10/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F94731

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST. STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0061
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317.557.9119
Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [ ] Other Deliv: DATA CD ONLY NO HARD COPY
- [ ] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	TOTAL METALS 6010	DISSOLVED METALS 6010	COMMENTS	LAB USE
1	MW-53B (07092012)	7	7/9/12	1340	MW	N	G	GW	✓	✓	✓	✓	6010 ARSENIC & LEAD ONLY (LAB FILTER & PRESERVE)	
2	DUP-1 (07092012) WW	7	7/9/12		MW	N	G	GW	✓	✓	✓	✓		
3	MW-53A (07092012)	21	7/9/12	1335	MW	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Mike Weslund/Mike Winter	07092012 18:00	FX		SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	07/10/12 0930	[signature] MCSE	07-10-12 0930	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02

2.8, 3.4, 3.5

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94731: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9A157829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: BLOOMINGTON
CSXT Contact: PAUL J. KWIZONSKI
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Project #: IN000072.0061
PM: BRYANT GRIGGS
Address: 132 E. WASHINGTON ST., STE 600
Email: bryant.griggs@arcadis-us.com
City, State, Zip: INDIANAPOLIS, IN 46204
Phone: 317.957.9115
Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY / NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX - 8260	SVOCs - 8270 SIM	TOTAL METALS - 6010	DISSOLVED METALS - 6010	COMMENTS	LAB USE
4	MW-A8B (07092012)	2 1	7/9/12	1445	MW	N	G	GW	✓	✓	✓	✓	ARSENIC & LEAD ONLY 6010 LAB FILTER & PRESERVE	
5	DUP-1 (07092012) MW	7	7/9/12		MW	N	G	GW	✓	✓	✓	✓		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: WES WILLIAMS	7/9/12 1900	Received By: FX		SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	Date Time: 07-10-12 0930	Received By: K. Willis ALSE	Date Time: 07-10-12 0930	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev: 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94731: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: BLOOMINGTON
CSXT Contact: PAUL J. KURZANSKI
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E WASHINGTON ST., STE 6000
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0061
PM: BRYANT GRIGGS
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317.557.7115 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: CD only / NO HARD copy!
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX - 8260D	SVOCs - 8270D SIM	TOTAL METALS - 6010D	DISSOLVED METALS - 6010D	COMMENTS	LAB USE
6	MW-50A(070912)	7	070912	15:52	MW	N	G	GW	X	X	X	X	(i.e. Arsenic filtered only (Circle Filter if Preserve)	
7	MW-50B(070912)	7	070912	16:17	MW	N	G	GW	X	X	X	X		
8	DUP-2(070912)MW	7	070912	—	MW	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:
Relinquished By: Mike Winton/Mike Winton	07092012 18:00	FP	
Relinquished By: FP	071012 0930	[signature] MSE	07-10-12 0930
Relinquished By:			
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements: See attached table for site specific constituents to be Analyzed

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94731 CLIENT: Arcadis PROJECT: FN Creosote

DATE/TIME RECEIVED: 07-10-12 0930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8580 9990 8914 / 0156 / 3876

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK (3)
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.0
- [ ] OBSERVED TEMPS: 2.8, 3.4, 3.0
- [ ] CORRECTED TEMPS: 2.8 3.4 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? ~~12~~ 12

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 07-10-12 REVIEWER SIGNATURE/DATE: 7-10-12

NF 12/10

receipt confirmation 122910.xls

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F94731: Chain of Custody
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Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichtorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F94731: Chain of Custody
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Southeast ACCUTEST LABORATORIES

07/30/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F94770

Sampling Date: 07/10/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **77**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F94770

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94770-1	07/10/12	12:55	WW	07/11/12	AQ	Ground Water	MW-18D (07102012)
F94770-2	07/10/12	12:00	WW	07/11/12	AQ	Ground Water	MW-8D (07102012)
F94770-2F	07/10/12	12:00	WW	07/11/12	AQ	Groundwater Filtered	MW-8D (07102012)
F94770-3	07/10/12	10:55	WW	07/11/12	AQ	Ground Water	MW-25A (07102012)
F94770-3F	07/10/12	10:55	WW	07/11/12	AQ	Groundwater Filtered	MW-25A (07102012)
F94770-4	07/10/12	09:55	WW	07/11/12	AQ	Ground Water	MW-17S (07102012)
F94770-4F	07/10/12	09:55	WW	07/11/12	AQ	Groundwater Filtered	MW-17S (07102012)
F94770-5	07/10/12	12:51	WW	07/11/12	AQ	Ground Water	MW-38B (07102012)
F94770-5F	07/10/12	12:51	WW	07/11/12	AQ	Groundwater Filtered	MW-38B (07102012)
F94770-6	07/10/12	00:00	WW	07/11/12	AQ	Ground Water	DUP-1 (07102012) MW
F94770-6F	07/10/12	00:00	WW	07/11/12	AQ	Groundwater Filtered	DUP-1 (07102012) MW
F94770-7	07/10/12	13:39	WW	07/11/12	AQ	Ground Water	MW-41A (071012)
F94770-7F	07/10/12	13:39	WW	07/11/12	AQ	Groundwater Filtered	MW-41A (071012)

Sample Summary
(continued)

CSX Transportation

Job No: F94770

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94770-8	07/10/12	14:35	WW	07/11/12	AQ	Ground Water	MW-42A (071012)
F94770-8F	07/10/12	14:35	WW	07/11/12	AQ	Groundwater Filtered	MW-42A (071012)
F94770-9	07/10/12	15:05	WW	07/11/12	AQ	Ground Water	MW-42B (071012)
F94770-9F	07/10/12	15:05	WW	07/11/12	AQ	Groundwater Filtered	MW-42B (071012)
F94770-10	07/10/12	14:30	WW	07/11/12	AQ	Ground Water	MW-55A (071012)
F94770-10F	07/10/12	14:30	WW	07/11/12	AQ	Groundwater Filtered	MW-55A (071012)
F94770-11	07/10/12	15:05	WW	07/11/12	AQ	Ground Water	MW-55B (071012)
F94770-11F	07/10/12	15:05	WW	07/11/12	AQ	Groundwater Filtered	MW-55B (071012)
F94770-12	07/10/12	00:00	WW	07/11/12	AQ	Trip Blank Water	TRIP BLANK
F94770-13	07/10/12	00:00	WW	07/11/12	AQ	Trip Blank Water	TRIP BLANK
F94770-14	07/10/12	00:00	WW	07/11/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F94770

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2012 12:06:26 PM

11 Sample(s) and 1 Trip Blank were collected on 07/10/2012 and were received at Accutest SE on 07/11/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F94770. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ4039

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94780-8MS, F94780-8MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VO445

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94745-25MS, F94745-25MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

F94770-2: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VO446

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94781-1MS, F94781-1MSD were used as the QC samples indicated.

F94770-6: Sample vial(s) contained significant headspace; reported results are considered minimum values.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42634

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94731-4MS, F94731-4MSD were used as the QC samples indicated.

Sample(s) OP42634-MS1, OP42634-MSD1, OP42664-MS, OP42664-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F94770-5: Dilution required due to high PAH levels.

OP42634-MS1/MSD1 for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP42664

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-9MS, F94770-9MSD were used as the QC samples indicated.

Sample(s) OP42634-MS1, OP42634-MSD1, OP42664-MS, OP42664-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F94770-6: Dilution required due to matrix interference.

F94770-11: Dilution required due to matrix interference.

OP42664-MS/MSD for Phenol-d5: Outside control limits.

OP42664-MSD for 2-Fluorophenol: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42633

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94731-4MS, F94731-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthene, Fluorene, Phenanthrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene, Phenanthrene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F94770-11, F94770-2, F94770-5, F94770-6, OP42633-MS1, OP42633-MSD1, OP42665-MS, OP42665-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP42633-MB for 2,4,6-Tribromophenol: Spike recoveries corrected for actual spike amount.

OP42633-MB for Nitrobenzene-d5: Spike recoveries corrected for actual spike amount.

OP42633-MB for 2-Fluorobiphenyl: Spike recoveries corrected for actual spike amount.

OP42633-MB for Terphenyl-d14: Spike recoveries corrected for actual spike amount.

OP42633-MS1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42633-MS1 for Nitrobenzene-d5: Outside control limits due to dilution.

OP42633-MS1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42633-MS1 for Terphenyl-d14: Outside control limits due to dilution.

OP42633-MSD1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42633-MSD1 for Nitrobenzene-d5: Outside control limits due to dilution.

OP42633-MSD1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42633-MSD1 for Terphenyl-d14: Outside control limits due to dilution.

F94770-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94770-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F94770-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94770-2 for Terphenyl-d14: Outside control limits due to dilution.

F94770-3: Dilution required due to matrix interference.

F94770-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94770-5 for Nitrobenzene-d5: Outside control limits due to dilution.

F94770-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94770-5 for Terphenyl-d14: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP42665

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-11MS, F94770-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42665

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Methylnaphthalene, Acenaphthene, Benzo(g,h,i)perylene, Chrysene, Fluorene, Naphthalene, Phenanthrene are outside control limits for sample OP42665-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F94770-11, F94770-2, F94770-5, F94770-6, OP42633-MS1, OP42633-MSD1, OP42665-MS, OP42665-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP42665-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP42665-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MS for Terphenyl-d14: Outside control limits due to dilution.

OP42665-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MSD for Terphenyl-d14: Outside control limits due to dilution.

F94770-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94770-6 for Nitrobenzene-d5: Outside control limits due to dilution.

F94770-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94770-6 for Terphenyl-d14: Outside control limits due to dilution.

F94770-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-9 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-9 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-9 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-9 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94770-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94770-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94770-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94770-11 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94770-11 for Nitrobenzene-d5: Outside control limits due to dilution.

F94770-11 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94770-11 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94731-3FDUP, F94731-3FMS, F94731-3FMSD, F94731-3FPS, F94731-3FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23192

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-4DUP, F94770-4MS, F94770-4MSD, F94770-4PS, F94770-4SDL were used as the QC samples for metals.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Arsenic are outside control limits. Spike recovery indicates possible matrix interference.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23192-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP23192-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 30, 2012

Summary of Hits

Job Number: F94770
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94770-1	**MW-18D (07102012)**					
Acenaphthene		0.0054	0.00095		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00027	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00038	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00020	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0012	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0022	0.00095		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00025	0.00019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0026	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0220	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0024	0.00095		mg/l	SW846 8270D BY SIM
Arsenic		0.0490	0.010		mg/l	SW846 6010C
Lead		0.0253	0.0050		mg/l	SW846 6010C
F94770-2	**MW-8D (07102012)**					
Benzene [a]		0.0791	0.0050		mg/l	SW846 8260B
Toluene [a]		0.0532	0.0050		mg/l	SW846 8260B
Ethylbenzene [a]		0.0339	0.0050		mg/l	SW846 8260B
Xylene (total) [a]		0.174	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.132	0.019		mg/l	SW846 8270D
Carbazole		0.186	0.019		mg/l	SW846 8270D
Dibenzofuran		0.139	0.019		mg/l	SW846 8270D
Acenaphthene		0.252	0.038		mg/l	SW846 8270D BY SIM
Fluorene		0.140	0.038		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.165	0.038		mg/l	SW846 8270D BY SIM
Naphthalene		1.51	0.038		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0968	0.038		mg/l	SW846 8270D BY SIM
Arsenic		0.0106	0.010		mg/l	SW846 6010C
Lead		0.0174	0.0050		mg/l	SW846 6010C
F94770-2F	**MW-8D (07102012)**					
No hits reported in this sample.						
F94770-3	**MW-25A (07102012)**					
Benzene		0.0691	0.0050		mg/l	SW846 8260B
Toluene		0.0151	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0201	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0198	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0405	0.0048		mg/l	SW846 8270D
2-Methylphenol		0.0406	0.0048		mg/l	SW846 8270D
Carbazole		0.0301	0.0048		mg/l	SW846 8270D

Summary of Hits

Job Number: F94770
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzofuran		0.0509	0.0048		mg/l	SW846 8270D
Acenaphthene [b]		0.137	0.0038		mg/l	SW846 8270D BY SIM
Acenaphthylene [b]		0.0044	0.0038		mg/l	SW846 8270D BY SIM
Fluoranthene [b]		0.0128	0.0038		mg/l	SW846 8270D BY SIM
Fluorene [b]		0.0569	0.0038		mg/l	SW846 8270D BY SIM
Naphthalene [b]		0.111	0.0038		mg/l	SW846 8270D BY SIM
Phenanthrene [b]		0.0302	0.0038		mg/l	SW846 8270D BY SIM
Pyrene [b]		0.0061	0.0038		mg/l	SW846 8270D BY SIM

F94770-3F **MW-25A (07102012)**

No hits reported in this sample.

F94770-4 **MW-17S (07102012)**

bis(2-Ethylhexyl)phthalate	0.0132	0.0048	mg/l	SW846 8270D
Benzo(a)pyrene	0.00025	0.00019	mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene	0.00043	0.00019	mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene	0.00019	0.00019	mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene	0.00025	0.00019	mg/l	SW846 8270D BY SIM
Arsenic	0.0441	0.010	mg/l	SW846 6010C
Lead	0.534	0.0050	mg/l	SW846 6010C

F94770-4F **MW-17S (07102012)**

No hits reported in this sample.

F94770-5 **MW-38B (07102012)**

Benzene	0.101	0.010	mg/l	SW846 8260B
Toluene	0.0364	0.010	mg/l	SW846 8260B
Ethylbenzene	0.143	0.010	mg/l	SW846 8260B
Xylene (total)	0.318	0.030	mg/l	SW846 8260B
2,4-Dimethylphenol [c]	0.208	0.038	mg/l	SW846 8270D
Carbazole [c]	0.302	0.038	mg/l	SW846 8270D
Dibenzofuran [c]	0.176	0.038	mg/l	SW846 8270D
Acenaphthene	0.388	0.095	mg/l	SW846 8270D BY SIM
Fluorene	0.158	0.095	mg/l	SW846 8270D BY SIM
2-Methylnaphthalene	0.397	0.095	mg/l	SW846 8270D BY SIM
Naphthalene	15.0	0.38	mg/l	SW846 8270D BY SIM

F94770-5F **MW-38B (07102012)**

No hits reported in this sample.

Summary of Hits

Job Number: F94770
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94770-6	**DUP-1 (07102012) MW**					
Benzene [d]		0.113	0.025		mg/l	SW846 8260B
Toluene		0.0478	0.0050		mg/l	SW846 8260B
Ethylbenzene [d]		0.148	0.025		mg/l	SW846 8260B
Xylene (total) [d]		0.330	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol [b]		0.165	0.048		mg/l	SW846 8270D
Carbazole [b]		0.281	0.048		mg/l	SW846 8270D
Dibenzofuran [b]		0.167	0.048		mg/l	SW846 8270D
Acenaphthene		0.357	0.19		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.345	0.19		mg/l	SW846 8270D BY SIM
Naphthalene		9.31	0.38		mg/l	SW846 8270D BY SIM
F94770-6F	**DUP-1 (07102012) MW**					
No hits reported in this sample.						
F94770-7	**MW-41A (071012)**					
Acenaphthene		0.00098	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0062	0.00095		mg/l	SW846 8270D BY SIM
Arsenic		0.0223	0.010		mg/l	SW846 6010C
Lead		0.0285	0.0050		mg/l	SW846 6010C
F94770-7F	**MW-41A (071012)**					
No hits reported in this sample.						
F94770-8	**MW-42A (071012)**					
No hits reported in this sample.						
F94770-8F	**MW-42A (071012)**					
No hits reported in this sample.						
F94770-9	**MW-42B (071012)**					
No hits reported in this sample.						
F94770-9F	**MW-42B (071012)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94770
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94770-10	**MW-55A (071012)**					
Carbazole		0.0062	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0091	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0116	0.00095		mg/l	SW846 8270D BY SIM
Anthracene		0.0026	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0087	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0105	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0377	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0111	0.00095		mg/l	SW846 8270D BY SIM
Arsenic		0.0153	0.010		mg/l	SW846 6010C
Lead		0.0223	0.0050		mg/l	SW846 6010C
F94770-10F	**MW-55A (071012)**					
No hits reported in this sample.						
F94770-11	**MW-55B (071012)**					
Benzene		0.264	0.025		mg/l	SW846 8260B
Toluene		0.238	0.025		mg/l	SW846 8260B
Ethylbenzene		0.149	0.025		mg/l	SW846 8260B
Xylene (total)		0.321	0.075		mg/l	SW846 8260B
2,4-Dichlorophenol [b]		0.0852	0.019		mg/l	SW846 8270D
2,4-Dimethylphenol		0.683	0.048		mg/l	SW846 8270D
2-Methylphenol [b]		0.290	0.019		mg/l	SW846 8270D
3&4-Methylphenol [b]		0.353	0.019		mg/l	SW846 8270D
Phenol [b]		0.0606	0.019		mg/l	SW846 8270D
Carbazole [b]		0.141	0.019		mg/l	SW846 8270D
Dibenzofuran [b]		0.0758	0.019		mg/l	SW846 8270D
Acenaphthene		0.185	0.095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.358	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		5.21	0.19		mg/l	SW846 8270D BY SIM
F94770-11F	**MW-55B (071012)**					
No hits reported in this sample.						
F94770-12	**TRIP BLANK**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94770
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

F94770-13 **TRIP BLANK**

No hits reported in this sample.

F94770-14 **TRIP BLANK**

No hits reported in this sample.

(a) Sample was not preserved to a pH < 2.
(b) Dilution required due to matrix interference.
(c) Dilution required due to high PAH levels.
(d) Sample vial(s) contained significant headspace; reported results are considered minimum values.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-18D (07102012)
Lab Sample ID: F94770-1 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10563.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-18D (07102012)
Lab Sample ID: F94770-1 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058244.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-18D (07102012)
Lab Sample ID: F94770-1 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35381.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0054	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00027	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00038	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00020	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0012	0.00095	mg/l	
86-73-7	Fluorene	0.0022	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00025	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0026	0.00095	mg/l	
91-20-3	Naphthalene	0.0220	0.00095	mg/l	
85-01-8	Phenanthrene	0.0024	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18D (07102012)		
Lab Sample ID:	F94770-1	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0490	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0253	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8D (07102012)		
Lab Sample ID:	F94770-2	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	O10564.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0791	0.0050	mg/l	
108-88-3	Toluene	0.0532	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0339	0.0050	mg/l	
1330-20-7	Xylene (total)	0.174	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8D (07102012)
Lab Sample ID: F94770-2 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058245.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2	L058270.D	4	07/17/12	NAF	07/13/12	OP42634	SL2975

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.132 [a]	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.186 [a]	0.019	mg/l	
132-64-9	Dibenzofuran	0.139 [a]	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%	46%	14-62%
4165-62-2	Phenol-d5	28%	30%	10-40%
118-79-6	2,4,6-Tribromophenol	88%	94%	33-118%
4165-60-0	Nitrobenzene-d5	99%	83%	42-108%
321-60-8	2-Fluorobiphenyl	79%	91%	40-106%
1718-51-0	Terphenyl-d14	88%	98%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-8D (07102012)
Lab Sample ID: F94770-2 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35382.D	40	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.038	mg/l	
83-32-9	Acenaphthene	0.252	0.038	mg/l	
208-96-8	Acenaphthylene	ND	0.038	mg/l	
120-12-7	Anthracene	ND	0.038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0076	mg/l	
218-01-9	Chrysene	ND	0.0076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0076	mg/l	
206-44-0	Fluoranthene	ND	0.038	mg/l	
86-73-7	Fluorene	0.140	0.038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0076	mg/l	
91-57-6	2-Methylnaphthalene	0.165	0.038	mg/l	
91-20-3	Naphthalene	1.51	0.038	mg/l	
85-01-8	Phenanthrene	0.0968	0.038	mg/l	
129-00-0	Pyrene	ND	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (07102012)		
Lab Sample ID:	F94770-2	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0106	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0174	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8D (07102012)		
Lab Sample ID:	F94770-2F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-25A (07102012)
Lab Sample ID: F94770-3 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10565.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0691	0.0050	mg/l	
108-88-3	Toluene	0.0151	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0201	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0198	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-25A (07102012)
Lab Sample ID: F94770-3 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058246.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0405	0.0048	mg/l	
95-48-7	2-Methylphenol	0.0406	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0301	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0509	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (07102012)		
Lab Sample ID:	F94770-3	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R35398.D	4	07/20/12	MG	07/13/12	OP42633	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0038	mg/l	
83-32-9	Acenaphthene	0.137	0.0038	mg/l	
208-96-8	Acenaphthylene	0.0044	0.0038	mg/l	
120-12-7	Anthracene	ND	0.0038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00076	mg/l	
218-01-9	Chrysene	ND	0.00076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00076	mg/l	
206-44-0	Fluoranthene	0.0128	0.0038	mg/l	
86-73-7	Fluorene	0.0569	0.0038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00076	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0038	mg/l	
91-20-3	Naphthalene	0.111	0.0038	mg/l	
85-01-8	Phenanthrene	0.0302	0.0038	mg/l	
129-00-0	Pyrene	0.0061	0.0038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	102% [b]		33-118%
4165-60-0	Nitrobenzene-d5	78% [b]		42-108%
321-60-8	2-Fluorobiphenyl	78% [b]		40-106%
1718-51-0	Terphenyl-d14	94% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (07102012)		
Lab Sample ID:	F94770-3	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9948
(2) Prep QC Batch: MP23191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (07102012)		
Lab Sample ID:	F94770-3F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-17S (07102012)
Lab Sample ID: F94770-4 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10566.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (07102012)		
Lab Sample ID:	F94770-4	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058247.D	1	07/16/12	NAF	07/13/12	OP42634	SL2974
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0132	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17S (07102012)
Lab Sample ID: F94770-4 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35384.D	1	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00025	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00043	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00019	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00025	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (07102012)		
Lab Sample ID:	F94770-4	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0441	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.534	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17S (07102012)		
Lab Sample ID:	F94770-4F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-38B (07102012)
Lab Sample ID: F94770-5 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10567.D	2	07/13/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.101	0.010	mg/l	
108-88-3	Toluene	0.0364	0.010	mg/l	
100-41-4	Ethylbenzene	0.143	0.010	mg/l	
1330-20-7	Xylene (total)	0.318	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (07102012)		
Lab Sample ID:	F94770-5	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L058271.D	8	07/17/12	NAF	07/13/12	OP42634	SL2975
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.038	mg/l	
105-67-9	2,4-Dimethylphenol	0.208	0.038	mg/l	
95-48-7	2-Methylphenol	ND	0.038	mg/l	
	3&4-Methylphenol	ND	0.038	mg/l	
108-95-2	Phenol	ND	0.038	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.038	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.038	mg/l	
86-74-8	Carbazole	0.302	0.038	mg/l	
132-64-9	Dibenzofuran	0.176	0.038	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	98%		33-118%
4165-60-0	Nitrobenzene-d5	105%		42-108%
321-60-8	2-Fluorobiphenyl	100%		40-106%
1718-51-0	Terphenyl-d14	98%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38B (07102012)
Lab Sample ID: F94770-5 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35385.D	100	07/19/12	MG	07/13/12	OP42633	SR1683
Run #2	R35399.D	400	07/20/12	MG	07/13/12	OP42633	SR1684

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.388	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	0.158	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.397	0.095	mg/l	
91-20-3	Naphthalene	15.0 [a]	0.38	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (07102012)		
Lab Sample ID:	F94770-5	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (07102012)		
Lab Sample ID:	F94770-5F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07102012) MW		
Lab Sample ID:	F94770-6	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10568.D	1	07/13/12	MM	n/a	n/a	VO445
Run #2 [a]	O10603.D	5	07/13/12	MM	n/a	n/a	VO446

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.113 [b]	0.025	mg/l	
108-88-3	Toluene	0.0478	0.0050	mg/l	
100-41-4	Ethylbenzene	0.148 [b]	0.025	mg/l	
1330-20-7	Xylene (total)	0.330 [b]	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	92%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	89%	76-127%
2037-26-5	Toluene-D8	99%	97%	86-112%
460-00-4	4-Bromofluorobenzene	101%	92%	84-120%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07102012) MW		
Lab Sample ID:	F94770-6	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X024440.D	10	07/23/12	FS	07/17/12	OP42664	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.165	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.281	0.048	mg/l	
132-64-9	Dibenzofuran	0.167	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	86%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07102012) MW		
Lab Sample ID:	F94770-6	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35483.D	200	07/25/12	MG	07/17/12	OP42665	SR1687
Run #2	R35491.D	400	07/25/12	MG	07/17/12	OP42665	SR1687

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.357	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.345	0.19	mg/l	
91-20-3	Naphthalene	9.31 [a]	0.38	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07102012) MW		
Lab Sample ID:	F94770-6	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07102012) MW		
Lab Sample ID:	F94770-6F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (071012)		
Lab Sample ID:	F94770-7	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10569.D	1	07/13/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (071012)		
Lab Sample ID:	F94770-7	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058344.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (071012)
Lab Sample ID: F94770-7 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35482.D	1	07/25/12	MG	07/17/12	OP42665	SR1687
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.00098	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0062	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (071012)		
Lab Sample ID:	F94770-7	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0223	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0285	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (071012)		
Lab Sample ID:	F94770-7F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-42A (071012)
Lab Sample ID: F94770-8 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10570.D	1	07/13/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071012)		
Lab Sample ID:	F94770-8	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058345.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A (071012)
Lab Sample ID: F94770-8 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35463.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071012)		
Lab Sample ID:	F94770-8	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (071012)		
Lab Sample ID:	F94770-8F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (071012)		
Lab Sample ID:	F94770-9	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J076861.D	1	07/13/12	MM	n/a	n/a	VJ4039
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	115%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (071012)		
Lab Sample ID:	F94770-9	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058346.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42B (071012)
Lab Sample ID: F94770-9 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35464.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	92% [a]		40-106%
1718-51-0	Terphenyl-d14	92% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (071012)		
Lab Sample ID:	F94770-9	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (071012)		
Lab Sample ID:	F94770-9F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55A (071012)		
Lab Sample ID:	F94770-10	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10571.D	1	07/13/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (071012)
Lab Sample ID: F94770-10 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058349.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0062	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0091	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (071012)
Lab Sample ID: F94770-10 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/11/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35465.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0116	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	0.0026	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0017	0.00095	mg/l	
86-73-7	Fluorene	0.0087	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0105	0.00095	mg/l	
91-20-3	Naphthalene	0.0377	0.00095	mg/l	
85-01-8	Phenanthrene	0.0111	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	82% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (071012)		
Lab Sample ID:	F94770-10	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0153	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0223	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55A (071012)		
Lab Sample ID:	F94770-10F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (071012)		
Lab Sample ID:	F94770-11	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10604.D	5	07/13/12	MM	n/a	n/a	VO446
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.264	0.025	mg/l	
108-88-3	Toluene	0.238	0.025	mg/l	
100-41-4	Ethylbenzene	0.149	0.025	mg/l	
1330-20-7	Xylene (total)	0.321	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (071012)		
Lab Sample ID:	F94770-11	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L058350.D	4	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2	X024441.D	10	07/23/12	FS	07/17/12	OP42664	SX1187

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0852	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.683 [b]	0.048	mg/l	
95-48-7	2-Methylphenol	0.290	0.019	mg/l	
	3&4-Methylphenol	0.353	0.019	mg/l	
108-95-2	Phenol	0.0606	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.141	0.019	mg/l	
132-64-9	Dibenzofuran	0.0758	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%	40%	14-62%
4165-62-2	Phenol-d5	30%	27%	10-40%
118-79-6	2,4,6-Tribromophenol	79%	75%	33-118%
4165-60-0	Nitrobenzene-d5	83%	68%	42-108%
321-60-8	2-Fluorobiphenyl	79%	70%	40-106%
1718-51-0	Terphenyl-d14	77%	77%	39-121%

(a) Dilution required due to matrix interference.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (071012)		
Lab Sample ID:	F94770-11	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35484.D	100	07/25/12	MG	07/17/12	OP42665	SR1687
Run #2	R35492.D	200	07/25/12	MG	07/17/12	OP42665	SR1687

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.185	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.358	0.095	mg/l	
91-20-3	Naphthalene	5.21 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (071012)		
Lab Sample ID:	F94770-11	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (071012)		
Lab Sample ID:	F94770-11F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/11/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/12/12	07/12/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9949
(2) Prep QC Batch: MP23192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F94770-12	**Date Sampled:**	07/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10560.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F94770-13	**Date Sampled:**	07/10/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/11/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10561.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F94770-14 **Date Sampled:** 07/10/12
Matrix: AQ - Trip Blank Water **Date Received:** 07/11/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O10562.D	1	07/12/12	MM	n/a	n/a	VO445
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

COC # F94770

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: GW 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E WASHINGTON ST. STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000D-12.0001
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [X] Other Deliv. DATA QC ONLY NO HARD COPY
- [X] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	TOTAL METALS - 6010	DISS. METALS - 6010	COMMENTS	LAB USE
1	MW-18D (07102012)	5.5	7/10/12	1255	WW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
2	MW-8D (07102012)	7	7/10/12	1200	WW	N	G	GW	✓	✓	✓	✓		
3	MW-25A (07102012)	7	7/10/12	1055	WW	N	G	GW	✓	✓	✓	✓		
4	MW-17S (07102012)	7	7/10/12	955	WW	N	G	GW	✓	✓	✓	✓		

	Relinquished By	Date/Time	Received By	Date Time
1	WES WILLIAMS	7/10/12 1700	FX	
2	FX	7/11/12 9:30	NSE	7/11/12 9:30
3		Date Time:	Received By:	Date Time:
	Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # # | LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94770: Chain of Custody
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COC # F94770

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 741582.9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kurzonski
Proj. State (State of Origin):
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington
City, State, Zip: Indianapolis, IN 46204
Project #: IN000872.9861
PM: Bryant Griggs
Email: Bryant.Griggs@ARCADIS-US.com
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: DATACC only, No Hard Copy
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270SIM	Total Metals 6010	Dissolved Metals 6010	COMMENTS	LAB USE
5	MW-38B(071012)	7	7/10/12	12:51	MW	N	G	GW	X	X	X	X	6010: Lead & Arsenic	
6	DUP-1(071012)MW	7	7/10/12	—	MW	N	G	GW	X	X	X	X		
7	MW-41A(071012)	7	7/10/12	13:39	MW	N	G	GW	X	X	X	X		
8	MW-42A(071012)	7	7/10/12	14:35	MW	N	G	GW	X	X	X	X		
9	MW-42B(071012)	7	7/10/12	15:05	MW	N	G	GW	X	X	X	X		

Relinquished By: Mark Winter	Date Time: 7/10/12 17:00	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See Attached table for site specific constituents to be analyzed	
Relinquished By: FX	Date Time: 7/11/12 9:30	Received By: [signature] ASE	Date Time: 7/11/12 9:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94770: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F94770

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E WASHINGTON ST, STE 6000
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0061
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other EMAILED

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY NO HARD COPY
- [x] EDD Required, Format: EXCEL FORMAT

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	TOTAL METALS 6010	DISSOLVED METALS 6010	COMMENTS	LAB USE
10	MW-55A (07102012)	7	7/10/12	1430	MW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
14	MW-55B (07102012)	7	7/10/12	1505	MW	N	G	GW	✓	✓	✓	✓		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: WS WILLIAMS	7/10/12 1700	Received By: FX		SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	7/11/12 9:30	Received By: Courier (ALS)	Date Time: 7-11-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94770: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94770 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 07/11/12 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8580 9990 8925 8005 2380 4173/4162

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK (3)
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 3.2 3.6 2.8
- [ ] CORRECTED TEMPS: 3.2 3.6 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [X] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED #1 DISS. METALS (6010)
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN #6, #7
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: RECEIVED (1) 40ML VIAL (8260) BROKEN FOR SAMPLES #6 AND #7 DID NOT RECEIVE DISS. METALS BOTLE FOR (6010) FOR SAMPLE #1. CONTAINER NUMBER & TYPE SECTION COC STATES 5.5 CONTAINERS, WHICH WE RECEIVED. (1) 1000 ML AMBER (8270) IS ONLY 45% FULL. (3 VIALS, 2 AMBERS, 1) 500 ML POLY BOTLE (6010). used for dissolved metals SEE REVERSE FOR TRIP BLANK INFO.

TECHNICIAN SIGNATURE/DATE [signature] 07/11/12 REVIEWER SIGNATURE/DATE [signature] 07/11/12

NF 12/10

receipt confirmation 122910.xls

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F94770: Chain of Custody
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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibenzofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F94770: Chain of Custody
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Southeast ACCUTEST LABORATORIES

07/30/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F94810

Sampling Date: 07/10/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Section 3: Summary of Hits **6**
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Sample Summary

CSX Transportation

Job No: F94810

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F94810-1	07/10/12	10:13	MW	07/12/12	AQ	Ground Water	MW-38A (071012)
F94810-1F	07/10/12	10:13	MW	07/12/12	AQ	Groundwater Filtered	MW-38A (071012)
F94810-2	07/10/12	11:17	MW	07/12/12	AQ	Ground Water	MW-38C (071012)
F94810-2F	07/10/12	11:17	MW	07/12/12	AQ	Groundwater Filtered	MW-38C (071012)
F94810-3	07/10/12	09:39	MW	07/12/12	AQ	Ground Water	MW-38D (071012)
F94810-3F	07/10/12	09:39	MW	07/12/12	AQ	Groundwater Filtered	MW-38D (071012)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F94810

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2012 9:30:51 AM

3 Sample(s) were collected on 07/10/2012 and were received at Accutest SE on 07/12/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F94810. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ358

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-5MS, F94811-5MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ359

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94782-7MS, F94782-7MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42664

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-9MS, F94770-9MSD were used as the QC samples indicated.

Sample(s) OP42664-MS, OP42664-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

F94810-1: Dilution required due to matrix interference.

OP42664-MS for Phenol-d5: Outside control limits.

OP42664-MSD for 2-Fluorophenol: Outside control limits.

OP42664-MSD for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42665

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-11MS, F94770-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Methylnaphthalene, Acenaphthene, Benzo(g,h,i)perylene, Chrysene, Fluorene, Naphthalene, Phenanthrene are outside control limits for sample OP42665-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F94810-1, OP42665-MS/MSD have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42665

OP42665-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP42665-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MS for Terphenyl-d14: Outside control limits due to dilution.

OP42665-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MSD for Terphenyl-d14: Outside control limits due to dilution.

F94810-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94810-1 for Nitrobenzene-d5: Outside control limits due to dilution.

F94810-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94810-1 for Terphenyl-d14: Outside control limits due to dilution.

F94810-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94810-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94810-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94810-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94810-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94810-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94810-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94810-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23209

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94796-2DUP, F94796-2MS, F94796-2MSD, F94796-2PS, F94796-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23209-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP23219

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94836-2DUP, F94836-2MS, F94836-2MSD, F94836-2PS, F94836-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP23219-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP23219-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 30, 2012

Summary of Hits

Job Number: F94810
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/10/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94810-1	**MW-38A (071012)**					
Benzene		0.0992	0.010		mg/l	SW846 8260B
Toluene		0.0487	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.126	0.010		mg/l	SW846 8260B
Xylene (total)		0.274	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.132	0.019		mg/l	SW846 8270D
2-Methylphenol [a]		0.0206	0.019		mg/l	SW846 8270D
Carbazole [a]		0.198	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.118	0.019		mg/l	SW846 8270D
Acenaphthene		0.251	0.19		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.225	0.19		mg/l	SW846 8270D BY SIM
Naphthalene		5.59	0.19		mg/l	SW846 8270D BY SIM
F94810-1F	**MW-38A (071012)**					
No hits reported in this sample.						
F94810-2	**MW-38C (071012)**					
Naphthalene		0.0035	0.00095		mg/l	SW846 8270D BY SIM
F94810-2F	**MW-38C (071012)**					
No hits reported in this sample.						
F94810-3	**MW-38D (071012)**					
No hits reported in this sample.						
F94810-3F	**MW-38D (071012)**					
No hits reported in this sample.						

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-38A (071012)		
Lab Sample ID:	F94810-1	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7855.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2	Z7884.D	2	07/15/12	AP	n/a	n/a	VZ359

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0992 [a]	0.010	mg/l	
108-88-3	Toluene	0.0487	0.0050	mg/l	
100-41-4	Ethylbenzene	0.126 [a]	0.010	mg/l	
1330-20-7	Xylene (total)	0.274 [a]	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	95%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	76-127%
2037-26-5	Toluene-D8	97%	99%	86-112%
460-00-4	4-Bromofluorobenzene	99%	94%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071012)		
Lab Sample ID:	F94810-1	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L058351.D	4	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.132	0.019	mg/l	
95-48-7	2-Methylphenol	0.0206	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.198	0.019	mg/l	
132-64-9	Dibenzofuran	0.118	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071012)		
Lab Sample ID:	F94810-1	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35487.D	200	07/25/12	MG	07/17/12	OP42665	SR1687
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.251	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.225	0.19	mg/l	
91-20-3	Naphthalene	5.59	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071012)		
Lab Sample ID:	F94810-1	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/13/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/13/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23209

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A (071012)		
Lab Sample ID:	F94810-1F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/13/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/13/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23209

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-38C (071012)
Lab Sample ID: F94810-2 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7883.D	1	07/15/12	AP	n/a	n/a	VZ359
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38C (071012)
Lab Sample ID: F94810-2 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024442.D	1	07/23/12	FS	07/17/12	OP42664	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (071012)		
Lab Sample ID:	F94810-2	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35537.D	1	07/27/12	MG	07/17/12	OP42665	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0035	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	86% [a]		40-106%
1718-51-0	Terphenyl-d14	88% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (071012)		
Lab Sample ID:	F94810-2	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23219

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (071012)		
Lab Sample ID:	F94810-2F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23219

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (071012)		
Lab Sample ID:	F94810-3	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7857.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38D (071012)
Lab Sample ID: F94810-3 **Date Sampled:** 07/10/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058353.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (071012)		
Lab Sample ID:	F94810-3	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35469.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	53% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	80% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (071012)		
Lab Sample ID:	F94810-3	**Date Sampled:**	07/10/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23219

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (071012)		
Lab Sample ID:	F94810-3F	**Date Sampled:**	07/10/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/12	07/16/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9958
(2) Prep QC Batch: MP23219

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

COC # F94810

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: Bloomington
CSXT Contact: Paul J Kwrzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington #600
City, State, Zip: Indianapolis, IN 46204
Project #: IN008972.0061
PM: Bryant Griggs
Email: Bryant.Griggs@Arcadis-us.com
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] Other Deliv: Darn CA or by, No Hard Copy
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note / Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	Tot / Metals 6010	Dissolved Metals 6010	COMMENTS	LAB USE
MW-38A(071012)	2 1	071012	10:13	MW	N	G	GW					(Tot. Lead & Arsenic only	
MW-38C(071012)	7	071012	11:17	MW	N	G	GW						
MW-38D(071012)	7	071012	9:39	MW	N	G	GW						

	Date Time:	Received By:	Date Time:
Relinquished By: Mike Hunter	7/10/12 1700	FX	
Relinquished By: FX	7-12-12	J. Comme (ARSE)	Date Time: 10:00
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements: See Attached Table for site specific constituents to be analyzed

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.8

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F94810: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94810 CLIENT: ARCADIS PROJECT: 94IS829

DATE/TIME RECEIVED: 7-12-12 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8005 2380 4184

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [X] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES) 2
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED ONLY 1 VIAL (8260) FOR SAMPLE #3; NO ANALYSIS REQUESTED ON COC

TECHNICIAN SIGNATURE/DATE JC 7-12-12 REVIEWER SIGNATURE/DATE K. Wilson 07-12-12

NF 12/10

receipt confirmation 122910.xls

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F94810: Chain of Custody
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Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F94810: Chain of Custody
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Southeast
ACCUTEST
LABORATORIES

07/30/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F94811

Sampling Date: 07/11/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **103**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F94811

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94811-1	07/11/12	13:35	WW	07/12/12	AQ	Ground Water	MW46A (07112012)
F94811-1F	07/11/12	13:35	WW	07/12/12	AQ	Groundwater Filtered	MW46A (07112012)
F94811-2	07/11/12	12:25	WW	07/12/12	AQ	Ground Water	MW56B (07112012)
F94811-2F	07/11/12	12:25	WW	07/12/12	AQ	Groundwater Filtered	MW56B (07112012)
F94811-3	07/11/12	11:45	WW	07/12/12	AQ	Ground Water	MW56A (07112012)
F94811-3F	07/11/12	11:45	WW	07/12/12	AQ	Groundwater Filtered	MW56A (07112012)
F94811-4	07/11/12	10:20	WW	07/12/12	AQ	Ground Water	MW47A (07112012)
F94811-4F	07/11/12	10:20	WW	07/12/12	AQ	Groundwater Filtered	MW47A (07112012)
F94811-5	07/11/12	11:10	WW	07/12/12	AQ	Ground Water	MW28C (07112012)
F94811-5D	07/11/12	11:10	WW	07/12/12	AQ	Water Dup/MSD	MW28C (07112012)
F94811-5F	07/11/12	11:10	WW	07/12/12	AQ	Groundwater Filtered	MW28C (07112012)
F94811-5FD	07/11/12	11:10	WW	07/12/12	AQ	Groundwater Filtered	MW28C (07112012)
F94811-5FS	07/11/12	11:10	WW	07/12/12	AQ	Groundwater Filtered	MW28C (07112012)

Sample Summary
(continued)

CSX Transportation

Job No: F94811

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94811-5S	07/11/12	11:10	WW	07/12/12	AQ	Water Matrix Spike	MW28C (07112012)
F94811-6	07/11/12	10:44	WW	07/12/12	AQ	Ground Water	MW28B (07112012)
F94811-6F	07/11/12	10:44	WW	07/12/12	AQ	Groundwater Filtered	MW28B (07112012)
F94811-7	07/11/12	15:40	WW	07/12/12	AQ	Ground Water	MW37A (07112012)
F94811-7F	07/11/12	15:40	WW	07/12/12	AQ	Groundwater Filtered	MW37A (07112012)
F94811-8	07/11/12	15:05	WW	07/12/12	AQ	Ground Water	MW37B (07112012)
F94811-8F	07/11/12	15:05	WW	07/12/12	AQ	Groundwater Filtered	MW37B (07112012)
F94811-9	07/11/12	14:25	WW	07/12/12	AQ	Ground Water	MW37C (07112012)
F94811-9F	07/11/12	14:25	WW	07/12/12	AQ	Groundwater Filtered	MW37C (07112012)
F94811-10	07/11/12	15:31	WW	07/12/12	AQ	Ground Water	MW32A (07112012)
F94811-10F	07/11/12	15:31	WW	07/12/12	AQ	Groundwater Filtered	MW32A (07112012)
F94811-11	07/11/12	10:15	WW	07/12/12	AQ	Ground Water	MW28A (07112012)
F94811-11F	07/11/12	10:15	WW	07/12/12	AQ	Groundwater Filtered	MW28A (07112012)

Sample Summary
(continued)

CSX Transportation

Job No: F94811

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94811-12	07/11/12	00:00	WW	07/12/12	AQ	Ground Water	DUP-1 (07112012) MW
F94811-12F	07/11/12	00:00	WW	07/12/12	AQ	Groundwater Filtered	DUP-1 (07112012) MW
F94811-13	07/11/12	12:47	WW	07/12/12	AQ	Ground Water	MW43A (07112012)
F94811-13F	07/11/12	12:47	WW	07/12/12	AQ	Groundwater Filtered	MW43A (07112012)
F94811-14	07/11/12	14:05	WW	07/12/12	AQ	Ground Water	MW32C (07112012)
F94811-14D	07/11/12	14:05	WW	07/12/12	AQ	Water Dup/MSD	MW32C (07112012)
F94811-14F	07/11/12	14:05	WW	07/12/12	AQ	Groundwater Filtered	MW32C (07112012)
F94811-14FD	07/11/12	14:05	WW	07/12/12	AQ	Groundwater Filtered	MW32C (07112012)
F94811-14FS	07/11/12	14:05	WW	07/12/12	AQ	Groundwater Filtered	MW32C (07112012)
F94811-14S	07/11/12	14:05	WW	07/12/12	AQ	Water Matrix Spike	MW32C (07112012)
F94811-15	07/11/12	14:56	WW	07/12/12	AQ	Ground Water	MW32B (07112012)
F94811-15F	07/11/12	14:56	WW	07/12/12	AQ	Groundwater Filtered	MW32B (07112012)
F94811-16	07/11/12	00:00	WW	07/12/12	AQ	Trip Blank Water	TRIP BLANK

Sample Summary
(continued)

CSX Transportation

Job No: F94811

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F94811-17	07/11/12	00:00	WW	07/12/12	AQ	Trip Blank Water	TRIP BLANK
F94811-18	07/11/12	00:00	WW	07/12/12	AQ	Trip Blank Water	TRIP BLANK
F94811-19	07/11/12	00:00	WW	07/12/12	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F94811

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2012 9:35:53 AM

15 Sample(s) and 1 Trip Blank were collected on 07/11/2012 and were received at Accutest SE on 07/12/2012 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F94811. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2476

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14MS, F94811-14MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ358

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-5MS, F94811-5MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ360

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94784-2MS, F94784-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42664

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-9MS, F94770-9MSD were used as the QC samples indicated.

Sample(s) OP42664-MS, OP42664-MSD, OP42684-MB, OP42684-MS, OP42684-MSD have surrogates outside control limits.
OP42664-MS for Phenol-d5: Outside control limits.

OP42664-MSD for 2-Fluorophenol: Outside control limits.

OP42664-MSD for Phenol-d5: Outside control limits.
F94811-1: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** OP42684

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14MS, F94811-14MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP42664-MS, OP42664-MSD, OP42684-MB, OP42684-MS, OP42684-MSD have surrogates outside control limits.
OP42684-MB for Phenol-d5: Outside control limits.

OP42684-MS for Phenol-d5: Outside control limits.

OP42684-MS for 2-Fluorophenol: Outside control limits.

OP42684-MSD for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42665

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94770-11MS, F94770-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene, are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Methylnaphthalene, Acenaphthene, Benzo(g,h,i)perylene, Chrysene, Fluorene, Naphthalene, Phenanthrene are outside control limits for sample OP42665-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F94811-1, F94811-6, F94811-9, OP42665-MS, OP42665-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

OP42665-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP42665-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP42665-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MS for Terphenyl-d14: Outside control limits due to dilution.

OP42665-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP42665-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP42665-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP42665-MSD for Terphenyl-d14: Outside control limits due to dilution.

F94811-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94811-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94811-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94811-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94811-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94811-1 for Nitrobenzene-d5: Outside control limits due to dilution.

F94811-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94811-1 for Terphenyl-d14: Outside control limits due to dilution.

F94811-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94811-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94811-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94811-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94811-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94811-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94811-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94811-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94811-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94811-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94811-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94811-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94811-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94811-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94811-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94811-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42665

F94811-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F94811-6 for Nitrobenzene-d5: Outside control limits due to dilution.
F94811-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F94811-6 for Terphenyl-d14: Outside control limits due to dilution.
F94811-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP42685

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F94811-14MS, F94811-14MSD were used as the QC samples indicated.
Sample(s) F94811-1, F94811-6, OP42665-MS, OP42665-MSD, F94811-9 have surrogates outside control limits. Probable cause due to matrix interference.
OP42685-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-9: Dilution required due to matrix interference.
F94811-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F94811-9 for Nitrobenzene-d5: Outside control limits due to dilution.
F94811-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F94811-9 for Terphenyl-d14: Outside control limits due to dilution.
F94811-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-11 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-11 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-11 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-11 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-12 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-12 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-12 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-12 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-13 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-13 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-13 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-13 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-14 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-14 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-14 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-14 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94811-15 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94811-15 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94811-15 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94811-15 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23222

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-5DUP, F94811-5MS, F94811-5MSD, F94811-5PS, F94811-5SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23223

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14DUP, F94811-14MS, F94811-14MSD, F94811-14PS, F94811-14SDL, F94811-5FDUP, F94811-5FMS, F94811-5FMSD, F94811-5FPS, F94811-5FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23229

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14FDUP, F94811-14FMS, F94811-14FMSD, F94811-14FPS, F94811-14FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 30, 2012

Summary of Hits

Job Number: F94811
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94811-1	**MW46A (07112012)**					
Benzene		0.0794	0.0050		mg/l	SW846 8260B
Toluene		0.0391	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0406	0.0050		mg/l	SW846 8260B
Xylene (total)		0.127	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.143	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0522	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0326	0.019		mg/l	SW846 8270D
Acenaphthene		0.0637	0.0038		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0067	0.0038		mg/l	SW846 8270D BY SIM
Fluorene		0.0264	0.0038		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0974	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		1.29	0.048		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0142	0.0038		mg/l	SW846 8270D BY SIM
F94811-1F	**MW46A (07112012)**					
No hits reported in this sample.						
F94811-2	**MW56B (07112012)**					
Benzene		0.0405	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0022	0.00096		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0013	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0325	0.00096		mg/l	SW846 8270D BY SIM
F94811-2F	**MW56B (07112012)**					
No hits reported in this sample.						
F94811-3	**MW56A (07112012)**					
No hits reported in this sample.						
F94811-3F	**MW56A (07112012)**					
No hits reported in this sample.						
F94811-4	**MW47A (07112012)**					
Naphthalene		0.0048	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0082	0.0050		mg/l	SW846 6010C

Summary of Hits

Job Number: F94811
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94811-4F	**MW47A (07112012)**					
No hits reported in this sample.						
F94811-5	**MW28C (07112012)**					
No hits reported in this sample.						
F94811-5F	**MW28C (07112012)**					
No hits reported in this sample.						
F94811-6	**MW28B (07112012)**					
Benzene		0.0923	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0404	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0415	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0050	0.0048		mg/l	SW846 8270D
Carbazole		0.0457	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0116	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0744	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0234	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0908	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.427	0.019		mg/l	SW846 8270D BY SIM
F94811-6F	**MW28B (07112012)**					
No hits reported in this sample.						
F94811-7	**MW37A (07112012)**					
Naphthalene		0.0034	0.00095		mg/l	SW846 8270D BY SIM
Arsenic		0.0342	0.010		mg/l	SW846 6010C
Lead		0.0804	0.0050		mg/l	SW846 6010C
F94811-7F	**MW37A (07112012)**					
No hits reported in this sample.						
F94811-8	**MW37B (07112012)**					
Benzene		0.0875	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0322	0.0050		mg/l	SW846 8260B
Carbazole		0.0273	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0463	0.0038		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: F94811
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluorene		0.0090	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0514	0.0038		mg/l	SW846 8270D BY SIM
Naphthalene		0.0131	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0014	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0082	0.0050		mg/l	SW846 6010C
F94811-8F	**MW37B (07112012)**					
No hits reported in this sample.						
F94811-9	**MW37C (07112012)**					
Benzene		0.0131	0.0050		mg/l	SW846 8260B
Toluene		0.0590	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0265	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0869	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0101	0.0048		mg/l	SW846 8270D
Carbazole		0.0283	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0190	0.0048		mg/l	SW846 8270D
Acenaphthene [a]		0.0558	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene [a]		0.0719	0.048		mg/l	SW846 8270D BY SIM
Naphthalene [a]		0.884	0.048		mg/l	SW846 8270D BY SIM
F94811-9F	**MW37C (07112012)**					
No hits reported in this sample.						
F94811-10	**MW32A (07112012)**					
Benzene		0.0161	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0111	0.00097		mg/l	SW846 8270D BY SIM
Lead		0.0075	0.0050		mg/l	SW846 6010C
F94811-10F	**MW32A (07112012)**					
No hits reported in this sample.						
F94811-11	**MW28A (07112012)**					
No hits reported in this sample.						
F94811-11F	**MW28A (07112012)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94811
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94811-12	**DUP-1 (07112012) MW**					
Benzene		0.0146	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0072	0.00095		mg/l	SW846 8270D BY SIM
Arsenic		0.0107	0.010		mg/l	SW846 6010C
Lead		0.0153	0.0050		mg/l	SW846 6010C
F94811-12F	**DUP-1 (07112012) MW**					
No hits reported in this sample.						
F94811-13	**MW43A (07112012)**					
Benzene		0.0401	0.0050		mg/l	SW846 8260B
Carbazole		0.0054	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0046	0.00096		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0018	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0027	0.00096		mg/l	SW846 8270D BY SIM
F94811-13F	**MW43A (07112012)**					
No hits reported in this sample.						
F94811-14	**MW32C (07112012)**					
No hits reported in this sample.						
F94811-14F	**MW32C (07112012)**					
No hits reported in this sample.						
F94811-15	**MW32B (07112012)**					
No hits reported in this sample.						
F94811-15F	**MW32B (07112012)**					
No hits reported in this sample.						
F94811-16	**TRIP BLANK**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94811
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/11/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

F94811-17 **TRIP BLANK**

No hits reported in this sample.

F94811-18 **TRIP BLANK**

No hits reported in this sample.

F94811-19 **TRIP BLANK**

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW46A (07112012)
Lab Sample ID: F94811-1 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7859.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0794	0.0050	mg/l	
108-88-3	Toluene	0.0391	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0406	0.0050	mg/l	
1330-20-7	Xylene (total)	0.127	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW46A (07112012)		
Lab Sample ID:	F94811-1	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L058354.D	4	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.143	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0522	0.019	mg/l	
132-64-9	Dibenzofuran	0.0326	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW46A (07112012)
Lab Sample ID: F94811-1 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35470.D	4	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2	R35493.D	50	07/25/12	MG	07/17/12	OP42665	SR1687

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0038	mg/l	
83-32-9	Acenaphthene	0.0637	0.0038	mg/l	
208-96-8	Acenaphthylene	0.0067	0.0038	mg/l	
120-12-7	Anthracene	ND	0.0038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00077	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00077	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00077	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00077	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00077	mg/l	
218-01-9	Chrysene	ND	0.00077	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00077	mg/l	
206-44-0	Fluoranthene	ND	0.0038	mg/l	
86-73-7	Fluorene	0.0264	0.0038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00077	mg/l	
91-57-6	2-Methylnaphthalene	0.0974 [a]	0.048	mg/l	
91-20-3	Naphthalene	1.29 [a]	0.048	mg/l	
85-01-8	Phenanthrene	0.0142	0.0038	mg/l	
129-00-0	Pyrene	ND	0.0038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	108% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	73% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	91% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW46A (07112012)		
Lab Sample ID:	F94811-1	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW46A (07112012)		
Lab Sample ID:	F94811-1F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW56B (07112012)
Lab Sample ID: F94811-2 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7860.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0405	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW56B (07112012)
Lab Sample ID: F94811-2 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058355.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW56B (07112012)		
Lab Sample ID:	F94811-2	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35471.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0022	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0013	0.00096	mg/l	
91-20-3	Naphthalene	0.0325	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	65% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW56B (07112012)		
Lab Sample ID:	F94811-2	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW56B (07112012)		
Lab Sample ID:	F94811-2F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW56A (07112012)		
Lab Sample ID:	F94811-3	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7861.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW56A (07112012)
Lab Sample ID: F94811-3 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024443.D	1	07/23/12	FS	07/17/12	OP42664	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-62%
4165-62-2	Phenol-d5	18%		10-40%
118-79-6	2,4,6-Tribromophenol	61%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW56A (07112012)		
Lab Sample ID:	F94811-3	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35472.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	60% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW56A (07112012)		
Lab Sample ID:	F94811-3	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW56A (07112012)		
Lab Sample ID:	F94811-3F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW47A (07112012)		
Lab Sample ID:	F94811-4	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7862.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW47A (07112012)
Lab Sample ID: F94811-4 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058357.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW47A (07112012)
Lab Sample ID: F94811-4 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35473.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0048	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW47A (07112012)
Lab Sample ID: F94811-4
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 07/11/12
Date Received: 07/12/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0082	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW47A (07112012)		
Lab Sample ID:	F94811-4F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW28C (07112012)		
Lab Sample ID:	F94811-5	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7863.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW28C (07112012)		
Lab Sample ID:	F94811-5	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058358.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW28C (07112012)
Lab Sample ID: F94811-5 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35474.D	1	07/24/12	MG	07/17/12	OP42665	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	60% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW28C (07112012)		
Lab Sample ID:	F94811-5	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW28C (07112012)		
Lab Sample ID:	F94811-5F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW28B (07112012)		
Lab Sample ID:	F94811-6	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7864.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0923	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0404	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0415	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW28B (07112012)
Lab Sample ID: F94811-6 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058359.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0050	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0457	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0116	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW28B (07112012)
Lab Sample ID: F94811-6 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35536.D	20	07/27/12	MG	07/17/12	OP42665	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.0744	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0234	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0908	0.019	mg/l	
91-20-3	Naphthalene	0.427	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW28B (07112012)		
Lab Sample ID:	F94811-6	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW28B (07112012)		
Lab Sample ID:	F94811-6F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW37A (07112012)
Lab Sample ID: F94811-7 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7865.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37A (07112012)		
Lab Sample ID:	F94811-7	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L058360.D	1	07/21/12	FS	07/17/12	OP42664	SL2979
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37A (07112012)		
Lab Sample ID:	F94811-7	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35490.D	1	07/25/12	MG	07/17/12	OP42665	SR1687
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0034	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37A (07112012)		
Lab Sample ID:	F94811-7	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0342	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0804	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW37A (07112012)		
Lab Sample ID:	F94811-7F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW37B (07112012)		
Lab Sample ID:	F94811-8	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7866.D	1	07/13/12	KW	n/a	n/a	VZ358
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0875	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0322	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37B (07112012)		
Lab Sample ID:	F94811-8	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003008.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0273	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW37B (07112012)
Lab Sample ID: F94811-8 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35426.D	1	07/23/12	MG	07/18/12	OP42685	SR1685
Run #2	R35394.D	4	07/20/12	MG	07/18/12	OP42685	SR1684

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0463 [a]	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0090	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0514 [a]	0.0038	mg/l	
91-20-3	Naphthalene	0.0131	0.00095	mg/l	
85-01-8	Phenanthrene	0.0014	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [b]	81% [b]	33-118%
4165-60-0	Nitrobenzene-d5	65% [b]	66% [b]	42-108%
321-60-8	2-Fluorobiphenyl	84% [b]	70% [b]	40-106%
1718-51-0	Terphenyl-d14	81% [b]	85% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37B (07112012)		
Lab Sample ID:	F94811-8	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0082	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW37B (07112012)		
Lab Sample ID:	F94811-8F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW37C (07112012)
Lab Sample ID: F94811-9 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7917.D	1	07/16/12	KW	n/a	n/a	VZ360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0131	0.0050	mg/l	
108-88-3	Toluene	0.0590	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0265	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0869	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW37C (07112012)
Lab Sample ID: F94811-9 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003009.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0101	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0283	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0190	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	83%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37C (07112012)		
Lab Sample ID:	F94811-9	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R35427.D	50	07/23/12	MG	07/18/12	OP42685	SR1685
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.0558	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0095	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	ND	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	0.0719	0.048	mg/l	
91-20-3	Naphthalene	0.884	0.048	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW37C (07112012)		
Lab Sample ID:	F94811-9	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW37C (07112012)		
Lab Sample ID:	F94811-9F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW32A (07112012)
Lab Sample ID: F94811-10 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z7918.D	1	07/16/12	KW	n/a	n/a	VZ360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0161	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW32A (07112012)
Lab Sample ID: F94811-10 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003010.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	99%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32A (07112012)		
Lab Sample ID:	F94811-10	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35458.D	1	07/24/12	MG	07/18/12	OP42685	SR1686
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0111	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	96% [a]		40-106%
1718-51-0	Terphenyl-d14	90% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32A (07112012)		
Lab Sample ID:	F94811-10	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0075	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW32A (07112012)		
Lab Sample ID:	F94811-10F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW28A (07112012)
Lab Sample ID: F94811-11 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060722.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW28A (07112012)
Lab Sample ID: F94811-11 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003011.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	35%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	94%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW28A (07112012)
Lab Sample ID: F94811-11 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35402.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW28A (07112012)		
Lab Sample ID:	F94811-11	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW28A (07112012)		
Lab Sample ID:	F94811-11F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: DUP-1 (07112012) MW
Lab Sample ID: F94811-12 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060723.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0146	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (07112012) MW
Lab Sample ID: F94811-12 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003012.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07112012) MW		
Lab Sample ID:	F94811-12	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35403.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0072	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	65% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	78% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (07112012) MW		
Lab Sample ID:	F94811-12	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0107	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0153	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (07112012) MW		
Lab Sample ID:	F94811-12F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW43A (07112012)		
Lab Sample ID:	F94811-13	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060724.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0401	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW43A (07112012)
Lab Sample ID: F94811-13 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003013.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0054	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW43A (07112012)
Lab Sample ID: F94811-13 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35404.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0046	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0018	0.00096	mg/l	
91-20-3	Naphthalene	0.0027	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	60% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW43A (07112012)		
Lab Sample ID:	F94811-13	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23222

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW43A (07112012)		
Lab Sample ID:	F94811-13F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW32C (07112012)
Lab Sample ID: F94811-14 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060725.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW32C (07112012)
Lab Sample ID: F94811-14 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003014.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32C (07112012)		
Lab Sample ID:	F94811-14	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35405.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32C (07112012)		
Lab Sample ID:	F94811-14	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW32C (07112012)		
Lab Sample ID:	F94811-14F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW32B (07112012)		
Lab Sample ID:	F94811-15	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060726.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW32B (07112012)
Lab Sample ID: F94811-15 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003017.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	92%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW32B (07112012)
Lab Sample ID: F94811-15 **Date Sampled:** 07/11/12
Matrix: AQ - Ground Water **Date Received:** 07/12/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35406.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW32B (07112012)		
Lab Sample ID:	F94811-15	**Date Sampled:**	07/11/12
Matrix:	AQ - Ground Water	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW32B (07112012)		
Lab Sample ID:	F94811-15F	**Date Sampled:**	07/11/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/12/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F94811-16 **Date Sampled:** 07/11/12
Matrix: AQ - Trip Blank Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060718.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F94811-17 **Date Sampled:** 07/11/12
Matrix: AQ - Trip Blank Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060719.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F94811-18 **Date Sampled:** 07/11/12
Matrix: AQ - Trip Blank Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060720.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F94811-19 **Date Sampled:** 07/11/12
Matrix: AQ - Trip Blank Water **Date Received:** 07/12/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060721.D	1	07/13/12	RB	n/a	n/a	VM2476
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F94811

COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest | Phone: 407-425-6700
4405 Vineland Rd., Suite C-15 | Fax: 407-425-0707
Orlando, FL 32811

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829 | Proj. State (State of Origin): IN | Proj. City: BLOOMINGTON
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI | LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS | Project #: IN000072.0009
Address: 132 E WASHINGTON ST, STE 600 | PM: BRYANT GRIGGS | Email: bryant.griggs@arcadis-us.com
City, State, Zip: INDIANAPOLIS, IN 46204 | Phone: 317-231-6500 | Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [X] Other Deliv: DETAILED ONLY NO HARD COPY
- [X] EDD Required, Format: EXCEL FORMAT

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ | Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	ENCLS 8270 SIM	TOT. METALS 6010	DIS. METALS 6010	COMMENTS	LAB USE
1	MW46A (07112012)	7	7/11/12	1335	WW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
2	MW56B (07112012)	7	7/11/12	1225	WW	N	G	GW	✓	✓	✓	✓		
3	MW56A (07112012)	7	7/11/12	1145	WW	N	G	GW	✓	✓	✓	✓		
4	MW47A (07112012)	7	7/11/12	1020	WW	N	G	GW	✓	✓	✓	✓		

Relinquished By: JAMES WILLIAMS	Date Time: 7/11/12 1700	Received By: FX	Date Time:	Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED	
Relinquished By: FX	Date Time: 7/12/12 10:00	Received By: [signature] ASE	Date Time: 7/12/12 10:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02 2.8, 3.2, 3.0, 3.4, 3.2

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94811: Chain of Custody
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CSX TRANSPORTATION 22312 CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 7715829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kuczenski
LWQN: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E Washington
City, State, Zip: Indianapolis, IN 46204
Project #:
PM: Bryant Griggs
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [ ] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code: BTEX 8260	SVOCs 8270 SIM	Total metals 6010	Dissolved metals	COMMENTS	LAB USE
MW-28C (071112)	2 1	7/11/12	11:10	MW	N	G	GW	X	X	X	X	Go to: Lead & Arsenic only Lab Filter and preserve	
MW-28B (071112)	7	7/11/12	10:44	MW	N	G	GW	X	X	X	X		
Dup ~~(071112) MW~~	~~7~~	~~7/11/12~~	~~MW~~	~~N~~	~~G~~	~~GW~~	~~GW~~	~~X~~	~~X~~	~~X~~	~~X~~		

Relinquished By: Mike Winston	Date Time: 7/11/12	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed
Relinquished By: FX	Date Time: 7/12/12 10:00	Received By: Scott Hill ALSE	Date Time: 7/12/12 10:00	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / Lab Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

2.8, 3.2, 3.0, 3.4, 3.2

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94811: Chain of Custody
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F94811

COC #

CSX TRANSPORTATION

CHAIN OF CUSTODY

LABORATORY INFORMATION

Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811

Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION

Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION

Company: ARCADIS
Address: 132 E WASHINGTON ST, STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0061
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500
Fax:

Turnaround Time:

- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:

- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: PDF ONLY NO HARD COPY
- [X] EDD Required, Format: EXCEL FORMAT

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	TOT. METALS 6010	DIS. METALS 6010	COMMENTS	LAB USE
7	MW37A (07112012)	1	7/11/12	1540	WW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
8	MW37B (07112012)	1	7/11/12	1505	WW	N	G	GW	✓	✓	✓	✓		
9	MW37C (07112012)	1	7/11/12	1425	WW	N	G	GW	✓	✓	✓	✓		

Relinquished By: WES WILLIAMS	Date Time: 7/11/12 1700	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 7/12/12 10:00	Received By: Jeff Hill ALSE	Date Time: 7/12/12 10:00
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # # | LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02 2.8, 3.2, 3.0, 3.4, 3.2

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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TB

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94158829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Koraenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington
City, State, Zip: Indianapolis, IN
Project #:
PM: Bryant Griggs
Email: Bryant.Griggs@Arcadis-us.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv. EQD only, No hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM	Total Metals 6010	Dissolved Metals 6010	METHODS FOR ANALYSIS	COMMENTS	LAB USE
10	MW-32A (071112)	7	7/11/12	15:31					X	X	X	X		EQD: Lead & Arsenic only, lab filter preserve	
11	MW-28A (071112)	7	7/11/12	10:15					X	X	X	X			
12	DUP-1 (071112) MW	7	7/11/12	—					X	X	X	X			

Relinquished By: Mike Winter	Date Time: 7/11/12	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed	
Relinquished By: FX	Date Time: 7/12/12 10:00	Received By: Scott Hall ALSE	Date Time: 7/12/12 10:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02 2.8, 3.2, 3.0, 3.7, 3.2

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 7415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J Kwarzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132E. Washington #600
City, State, Zip: Indianapolis, IN 46204
Project #:
PM: BRYANT GRIGGS
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317-231-6506 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: EDonly No hard copy
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270(SIM)	Total Metals 6010	Dissolved metals 6010	COMMENTS	LAB USE
3	MW-43A(071112)	7	7/11/12	1247	MW	N	G	GW	X	X	X	X	6010: Pb&Ag only (lab filter + preserve)	
4	MW-32C(071112)	21	7/11/12	14:05	MW	N	G	GU	X	X	X	X		
5	MW-32B(071112)	7	7/11/12	14:56	MW	N	G	GU	X	X	X	X		

Relinquished By: MW Watts — Date Time: 7/11/12 — Received By: FX
Relinquished By: FX — Date Time: 7/12/12 10:00 — Received By: Scott Allen ALSE
Relinquished By: — Date Time: — Received By:
Received By Laboratory: — Date Time: — Lab Remarks:

Date Time:
Date Time: 7/12/12 10:00
Date Time:

Comments & Special Analytical Requirements: See Attached table for site Specific constituents to be Analyzed

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02 2.8, 3.2, 3.0, 3.4, 3.2

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94811 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 07/12/12 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 5

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8668 3474 5879 /5868 /5857 /4221 /4210

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 4
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 2.8 3.2 3.0 3.4 3.2
- [ ] CORRECTED TEMPS: 2.8 3.2 3.0 3.4 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: SAMPLE #5 (MW-28C) RECEIVED (2) 1000 mL AMBERS (8270) BROKEN
SAMPLE #14 (MW-32C) RECEIVED (3) 40 mL VIALS (8260) BROKEN
TRIP BLANK FOR SAMPLES 1-4 IS SAMPLE #16, TRIP BLANK FOR SAMPLES 5-6
IS SAMPLE #17 TB FOR SAMPLES 7-9 IS SAMPLE #18 NO TB FOR →

TECHNICIAN SIGNATURE/DATE 07/12/12 REVIEWER SIGNATURE/DATE 07/12/12

NF 12/10

receipt confirmation 122910.xls

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F94811: Chain of Custody
Page 6 of 7

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F94811: Chain of Custody
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Southeast ACCUTEST LABORATORIES

07/31/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0030

Accutest Job Number: F94850

Sampling Date: 07/12/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **96**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F94850

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94850-1	07/12/12	15:43	MWW	07/13/12	AQ	Ground Water	MW-35A (071212)
F94850-1F	07/12/12	15:43	MWW	07/13/12	AQ	Groundwater Filtered	MW-35A (071212)
F94850-2	07/12/12	13:54	MWW	07/13/12	AQ	Ground Water	MW-35B (071212)
F94850-2F	07/12/12	13:54	MWW	07/13/12	AQ	Groundwater Filtered	MW-35B (071212)
F94850-3	07/12/12	15:19	MWW	07/13/12	AQ	Ground Water	MW-35C (071212)
F94850-3F	07/12/12	15:19	MWW	07/13/12	AQ	Groundwater Filtered	MW-35C (071212)
F94850-4	07/12/12	12:54	MWW	07/13/12	AQ	Ground Water	MW-52A (071212)
F94850-4F	07/12/12	12:54	MWW	07/13/12	AQ	Groundwater Filtered	MW-52A (071212)
F94850-5	07/12/12	09:50	MWW	07/13/12	AQ	Ground Water	MW-51B (071212)
F94850-5F	07/12/12	09:50	MWW	07/13/12	AQ	Groundwater Filtered	MW-51B (071212)
F94850-6	07/12/12	13:50	MWW	07/13/12	AQ	Ground Water	MW-36A (071212)
F94850-6F	07/12/12	13:50	MWW	07/13/12	AQ	Groundwater Filtered	MW-36A (071212)
F94850-7	07/12/12	10:45	MWW	07/13/12	AQ	Ground Water	MW-34A (071212)

Sample Summary
(continued)

CSX Transportation

Job No: F94850

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94850-7F	07/12/12	10:45	MWW	07/13/12	AQ	Groundwater Filtered	MW-34A (071212)
F94850-8	07/12/12	11:50	MWW	07/13/12	AQ	Ground Water	MW-6D (071212)
F94850-8F	07/12/12	11:50	MWW	07/13/12	AQ	Groundwater Filtered	MW-6D (071212)
F94850-9	07/12/12	12:50	MWW	07/13/12	AQ	Ground Water	MW-5S (071212)
F94850-9F	07/12/12	12:50	MWW	07/13/12	AQ	Groundwater Filtered	MW-5S (071212)
F94850-10	07/12/12	14:45	MWW	07/13/12	AQ	Ground Water	MW-30B (071212)
F94850-10F	07/12/12	14:45	MWW	07/13/12	AQ	Groundwater Filtered	MW-30B (071212)
F94850-11	07/12/12	15:30	MWW	07/13/12	AQ	Ground Water	MW-30A (071212)
F94850-11F	07/12/12	15:30	MWW	07/13/12	AQ	Groundwater Filtered	MW-30A (071212)
F94850-12	07/12/12	10:46	MWW	07/13/12	AQ	Ground Water	MW-49A (071212)
F94850-12F	07/12/12	10:46	MWW	07/13/12	AQ	Groundwater Filtered	MW-49A (071212)
F94850-13	07/12/12	11:41	MWW	07/13/12	AQ	Ground Water	MW-49B (071212)
F94850-13F	07/12/12	11:41	MWW	07/13/12	AQ	Groundwater Filtered	MW-49B (071212)

Sample Summary
(continued)

CSX Transportation

Job No: F94850

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0030

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94850-14	07/12/12	11:41	MWW	07/13/12	AQ	Ground Water	MW-49C (071212)
F94850-14F	07/12/12	11:41	MWW	07/13/12	AQ	Groundwater Filtered	MW-49C (071212)
F94850-15	07/12/12	15:54	MWW	07/13/12	AQ	Ground Water	MW-39B (071212)
F94850-15F	07/12/12	15:54	MWW	07/13/12	AQ	Groundwater Filtered	MW-39B (071212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F94850

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2012 3:53:55 PM

15 Sample(s) were collected on 07/12/2012 and were received at Accutest SE on 07/13/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F94850. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN2551

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94850-1MS, F94850-1MSD were used as the QC samples indicated.

F94850-14: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VN2552

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94850-2MS, F94850-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2553

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94881-13MS, F94881-13MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42684

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F94811-14MS, F94811-14MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP42684-MB, OP42684-MS, OP42684-MSD, OP42713-MS have surrogates outside control limits.

F94850-7: Dilution required due to matrix interference.

OP42684-MB for Phenol-d5: Outside control limits.

OP42684-MS/MSD for Phenol-d5: Outside control limits.

OP42684-MS for 2-Fluorophenol: Outside control limits.

Matrix: AQ **Batch ID:** OP42713

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5MS, F94919-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP42684-MB, OP42684-MS, OP42684-MSD, OP42713-MS have surrogates outside control limits.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42713

F94850-11: Dilution required due to high PAH levels.
OP42713-MS for 2-Fluorophenol: Outside control limits.
OP42713-MS for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42685

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F94811-14MS, F94811-14MSD were used as the QC samples indicated.
Sample(s) F94850-11, F94850-7 have surrogates outside control limits. Probable cause is due to matrix interference.
OP42685-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP42685-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-7: Dilution required due to matrix interference.
F94850-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
F94850-7 for Nitrobenzene-d5: Outside control limits due to dilution.
F94850-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.
F94850-7 for Terphenyl-d14: Outside control limits due to dilution.
F94850-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F94850-9 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F94850-9 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F94850-9 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F94850-9 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42714

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5MS, F94919-5MSD were used as the QC samples indicated.

Sample(s) F94850-11, F94850-7 have surrogates outside control limits. Probable cause is due to matrix interference.

OP42714-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP42714-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP42714-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP42714-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94850-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94850-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94850-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94850-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94850-11 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94850-11 for Nitrobenzene-d5: Outside control limits due to dilution.

F94850-11 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94850-11 for Terphenyl-d14: Outside control limits due to dilution.

F94850-12 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94850-12 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94850-12 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94850-12 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94850-13 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94850-13 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94850-13 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94850-13 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94850-14 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94850-14 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94850-14 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94850-14 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94850-15 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94850-15 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94850-15 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94850-15 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23223

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14DUP, F94811-14MS, F94811-14MSD, F94811-14PS, F94811-14SDL, F94811-5FPS, F94811-5FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23229

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94811-14FDUP, F94811-14FMS, F94811-14FMSD, F94811-14FPS, F94811-14FSDL were used as the QC samples for metals.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23233

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94944-1DUP, F94944-1MS, F94944-1MSD, F94944-1PS, F94944-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23233-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 30, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F94850
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94850-1	**MW-35A (071212)**					
No hits reported in this sample.						
F94850-1F	**MW-35A (071212)**					
No hits reported in this sample.						
F94850-2	**MW-35B (071212)**					
Benzene		0.0086	0.0050		mg/l	SW846 8260B
F94850-2F	**MW-35B (071212)**					
No hits reported in this sample.						
F94850-3	**MW-35C (071212)**					
No hits reported in this sample.						
F94850-3F	**MW-35C (071212)**					
No hits reported in this sample.						
F94850-4	**MW-52A (071212)**					
Acenaphthene		0.0013	0.0010		mg/l	SW846 8270D BY SIM
F94850-4F	**MW-52A (071212)**					
No hits reported in this sample.						
F94850-5	**MW-51B (071212)**					
Dibenzofuran		0.0048	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0078	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.0057	0.00096		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0070	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0263	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0071	0.00096		mg/l	SW846 8270D BY SIM
Lead		0.0160	0.0050		mg/l	SW846 6010C
F94850-5F	**MW-51B (071212)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94850
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94850-6	**MW-36A (071212)**					
Pentachlorophenol		0.0024	0.00095		mg/l	SW846 8270D BY SIM
Acenaphthene		0.0040	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
F94850-6F	**MW-36A (071212)**					
No hits reported in this sample.						
F94850-7	**MW-34A (071212)**					
Benzene		0.0727	0.0050		mg/l	SW846 8260B
Toluene		0.0118	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0548	0.0050		mg/l	SW846 8260B
Xylene (total)		0.121	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0773	0.0095		mg/l	SW846 8270D
Carbazole [a]		0.0383	0.0095		mg/l	SW846 8270D
Dibenzofuran [a]		0.0244	0.0095		mg/l	SW846 8270D
Acenaphthene [a]		0.0551	0.038		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene [a]		0.0916	0.038		mg/l	SW846 8270D BY SIM
Naphthalene [a]		1.24	0.038		mg/l	SW846 8270D BY SIM
Arsenic		0.0344	0.010		mg/l	SW846 6010C
Lead		0.0146	0.0050		mg/l	SW846 6010C
F94850-7F	**MW-34A (071212)**					
No hits reported in this sample.						
F94850-8	**MW-6D (071212)**					
Naphthalene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
F94850-8F	**MW-6D (071212)**					
No hits reported in this sample.						
F94850-9	**MW-5S (071212)**					
Arsenic		0.0119	0.010		mg/l	SW846 6010C
F94850-9F	**MW-5S (071212)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94850
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94850-10	**MW-30B (071212)**					
Naphthalene		0.0029	0.00095		mg/l	SW846 8270D BY SIM
F94850-10F	**MW-30B (071212)**					
No hits reported in this sample.						
F94850-11	**MW-30A (071212)**					
Benzene		0.226	0.025		mg/l	SW846 8260B
Toluene		0.0658	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.161	0.025		mg/l	SW846 8260B
Xylene (total)		0.349	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol [b]		0.475	0.048		mg/l	SW846 8270D
2-Methylphenol [b]		0.102	0.048		mg/l	SW846 8270D
3&4-Methylphenol [b]		0.0745	0.048		mg/l	SW846 8270D
Carbazole [b]		0.188	0.048		mg/l	SW846 8270D
Dibenzofuran [b]		0.102	0.048		mg/l	SW846 8270D
Acenaphthene		0.224	0.048		mg/l	SW846 8270D BY SIM
Fluorene		0.0824	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.398	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		7.33	0.24		mg/l	SW846 8270D BY SIM
F94850-11F	**MW-30A (071212)**					
No hits reported in this sample.						
F94850-12	**MW-49A (071212)**					
No hits reported in this sample.						
F94850-12F	**MW-49A (071212)**					
No hits reported in this sample.						
F94850-13	**MW-49B (071212)**					
No hits reported in this sample.						
F94850-13F	**MW-49B (071212)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94850
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/12/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94850-14	**MW-49C (071212)**					
Lead		0.0204	0.0050		mg/l	SW846 6010C
F94850-14F	**MW-49C (071212)**					
Arsenic		0.0196	0.010		mg/l	SW846 6010C
Lead		0.0084	0.0050		mg/l	SW846 6010C
F94850-15	**MW-39B (071212)**					

No hits reported in this sample.

F94850-15F **MW-39B (071212)**

No hits reported in this sample.

(a) Dilution required due to matrix interference.
(b) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-35A (071212)		
Lab Sample ID:	F94850-1	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061081.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A (071212)
Lab Sample ID: F94850-1 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003018.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071212)		
Lab Sample ID:	F94850-1	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35407.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	79% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071212)		
Lab Sample ID:	F94850-1	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (071212)		
Lab Sample ID:	F94850-1F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (071212)		
Lab Sample ID:	F94850-2	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061108.D	1	07/17/12	RB	n/a	n/a	VN2552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0086	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071212)		
Lab Sample ID:	F94850-2	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003019.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071212)		
Lab Sample ID:	F94850-2	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35408.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071212)		
Lab Sample ID:	F94850-2	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (071212)		
Lab Sample ID:	F94850-2F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (071212)		
Lab Sample ID:	F94850-3	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061082.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071212)		
Lab Sample ID:	F94850-3	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003020.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	98%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071212)		
Lab Sample ID:	F94850-3	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35409.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	88% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071212)		
Lab Sample ID:	F94850-3	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (071212)		
Lab Sample ID:	F94850-3F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-52A (071212)
Lab Sample ID: F94850-4 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061083.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071212)		
Lab Sample ID:	F94850-4	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003021.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	96%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071212)		
Lab Sample ID:	F94850-4	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35410.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0013	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	63% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071212)		
Lab Sample ID:	F94850-4	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9962
(2) Prep QC Batch: MP23223

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (071212)		
Lab Sample ID:	F94850-4F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (071212)		
Lab Sample ID:	F94850-5	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061084.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (071212)		
Lab Sample ID:	F94850-5	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003022.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0048	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	35%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (071212)
Lab Sample ID: F94850-5 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35411.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0078	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	0.0057	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0070	0.00096	mg/l	
91-20-3	Naphthalene	0.0263	0.00096	mg/l	
85-01-8	Phenanthrene	0.0071	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (071212)		
Lab Sample ID:	F94850-5	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0160	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (071212)		
Lab Sample ID:	F94850-5F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (071212)		
Lab Sample ID:	F94850-6	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061085.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (071212)		
Lab Sample ID:	F94850-6	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003023.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (071212)		
Lab Sample ID:	F94850-6	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35412.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0024	0.00095	mg/l	
83-32-9	Acenaphthene	0.0040	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0017	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (071212)		
Lab Sample ID:	F94850-6	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (071212)		
Lab Sample ID:	F94850-6F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (071212)		
Lab Sample ID:	F94850-7	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061112.D	1	07/17/12	RB	n/a	n/a	VN2552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0727	0.0050	mg/l	
108-88-3	Toluene	0.0118	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0548	0.0050	mg/l	
1330-20-7	Xylene (total)	0.121	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071212)		
Lab Sample ID:	F94850-7	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X024448.D	2	07/24/12	FS	07/18/12	OP42684	SX1188
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0095	mg/l	
105-67-9	2,4-Dimethylphenol	0.0773	0.0095	mg/l	
95-48-7	2-Methylphenol	ND	0.0095	mg/l	
	3&4-Methylphenol	ND	0.0095	mg/l	
108-95-2	Phenol	ND	0.0095	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0095	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0095	mg/l	
86-74-8	Carbazole	0.0383	0.0095	mg/l	
132-64-9	Dibenzofuran	0.0244	0.0095	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071212)		
Lab Sample ID:	F94850-7	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	R35429.D	40	07/23/12	MG	07/18/12	OP42685	SR1685
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.038	mg/l	
83-32-9	Acenaphthene	0.0551	0.038	mg/l	
208-96-8	Acenaphthylene	ND	0.038	mg/l	
120-12-7	Anthracene	ND	0.038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0076	mg/l	
218-01-9	Chrysene	ND	0.0076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0076	mg/l	
206-44-0	Fluoranthene	ND	0.038	mg/l	
86-73-7	Fluorene	ND	0.038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0076	mg/l	
91-57-6	2-Methylnaphthalene	0.0916	0.038	mg/l	
91-20-3	Naphthalene	1.24	0.038	mg/l	
85-01-8	Phenanthrene	ND	0.038	mg/l	
129-00-0	Pyrene	ND	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071212)		
Lab Sample ID:	F94850-7	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0344	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0146	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (071212)		
Lab Sample ID:	F94850-7F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6D (071212)		
Lab Sample ID:	F94850-8	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061086.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	89%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071212)		
Lab Sample ID:	F94850-8	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003025.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071212)		
Lab Sample ID:	F94850-8	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35414.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0017	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071212)		
Lab Sample ID:	F94850-8	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6D (071212)		
Lab Sample ID:	F94850-8F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5S (071212)		
Lab Sample ID:	F94850-9	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061087.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071212)		
Lab Sample ID:	F94850-9	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T003026.D	1	07/20/12	FS	07/18/12	OP42684	ST162
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5S (071212)
Lab Sample ID: F94850-9 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35415.D	1	07/20/12	MG	07/18/12	OP42685	SR1684
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	56% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071212)		
Lab Sample ID:	F94850-9	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0119	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5S (071212)		
Lab Sample ID:	F94850-9F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (071212)		
Lab Sample ID:	F94850-10	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061088.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B (071212)
Lab Sample ID: F94850-10 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024467.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (071212)		
Lab Sample ID:	F94850-10	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066555.D	1	07/27/12	MG	07/19/12	OP42714	SW3237
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0029	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	44% [a]		42-108%
321-60-8	2-Fluorobiphenyl	73% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (071212)		
Lab Sample ID:	F94850-10	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (071212)		
Lab Sample ID:	F94850-10F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-30A (071212)
Lab Sample ID: F94850-11 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061113.D	1	07/17/12	RB	n/a	n/a	VN2552
Run #2	N0061120.D	5	07/17/12	RB	n/a	n/a	VN2552

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.226 [a]	0.025	mg/l	
108-88-3	Toluene	0.0658	0.0050	mg/l	
100-41-4	Ethylbenzene	0.161 [a]	0.025	mg/l	
1330-20-7	Xylene (total)	0.349 [a]	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	92%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	96%	76-127%
2037-26-5	Toluene-D8	98%	93%	86-112%
460-00-4	4-Bromofluorobenzene	105%	94%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A (071212)
Lab Sample ID: F94850-11 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X024505.D	10	07/26/12	FS	07/19/12	OP42713	SX1190
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.475	0.048	mg/l	
95-48-7	2-Methylphenol	0.102	0.048	mg/l	
	3&4-Methylphenol	0.0745	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.188	0.048	mg/l	
132-64-9	Dibenzofuran	0.102	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A (071212)
Lab Sample ID: F94850-11 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066556.D	50	07/27/12	MG	07/19/12	OP42714	SW3237
Run #2	W066566.D	250	07/27/12	MG	07/19/12	OP42714	SW3237

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.224	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0095	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	0.0824	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	0.398	0.048	mg/l	
91-20-3	Naphthalene	7.33 [a]	0.24	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (071212)		
Lab Sample ID:	F94850-11	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30A (071212)		
Lab Sample ID:	F94850-11F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-49A (071212)
Lab Sample ID: F94850-12 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061109.D	1	07/17/12	RB	n/a	n/a	VN2552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	92%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071212)		
Lab Sample ID:	F94850-12	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024469.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	88%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071212)		
Lab Sample ID:	F94850-12	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066565.D	1	07/27/12	MG	07/19/12	OP42714	SW3237
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071212)		
Lab Sample ID:	F94850-12	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49A (071212)		
Lab Sample ID:	F94850-12F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (071212)		
Lab Sample ID:	F94850-13	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061110.D	1	07/17/12	RB	n/a	n/a	VN2552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071212)		
Lab Sample ID:	F94850-13	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024470.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071212)		
Lab Sample ID:	F94850-13	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066495.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071212)		
Lab Sample ID:	F94850-13	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (071212)		
Lab Sample ID:	F94850-13F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (071212)		
Lab Sample ID:	F94850-14	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N0061089.D	1	07/16/12	RB	n/a	n/a	VN2551
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (071212)		
Lab Sample ID:	F94850-14	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024471.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-49C (071212)
Lab Sample ID: F94850-14 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066496.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (071212)		
Lab Sample ID:	F94850-14	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0204	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (071212)		
Lab Sample ID:	F94850-14F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0196	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0084	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (071212)		
Lab Sample ID:	F94850-15	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061142.D	1	07/18/12	RB	n/a	n/a	VN2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (071212)		
Lab Sample ID:	F94850-15	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024472.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-39B (071212)
Lab Sample ID: F94850-15 **Date Sampled:** 07/12/12
Matrix: AQ - Ground Water **Date Received:** 07/13/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066497.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (071212)		
Lab Sample ID:	F94850-15	**Date Sampled:**	07/12/12
Matrix:	AQ - Ground Water	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/12	07/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9961
(2) Prep QC Batch: MP23229

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (071212)		
Lab Sample ID:	F94850-15F	**Date Sampled:**	07/12/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/13/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23233

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

COC # F94850

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kurzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington #600
City, State, Zip: Indianapolis, IN 46219
Project #:
PM: Bryant Griggs
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM	Total Metals 6010	Dissolved Metals 6010	COMMENTS	LAB USE
1	MW-35A(071212)	1	7/12/12	15:43	MW	N	G	GW	X	X	X	X	6010: Lead & Arsenic only lab filtered preserve	
2	MW-35B(071212)	1	7/12/12	13:54	MW	N	G	GW	X	X	X	X		
3	MW-35C(071212)	1	7/12/12	15:17	MW	N	G	GW	X	X	X	X		
4	MW-52A(071212)	1	7/12/12	12:54	MW	N	G	GW	X	X	X	X		

Relinquished By: [signature] Date Time: 7/12/12 5:00 Received By: FX
Relinquished By: FX Date Time: Received By: J. Cooke (ALS/K) Date Time: 07:30
Relinquished By: Date Time: Received By: Date Time:
Received By Laboratory: Date Time: Lab Remarks:

Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.8 3.0 3.6 2.8

5.1 5

F94850: Chain of Custody
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COC # F94850

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENN 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST., STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0006
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317.557.7119 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY NO HARD COPY!
- [X] EDD Required, Format: EXCEL

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

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Note ➡ Pres. Code

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270SIM	TOT. METALS 6010	DISS. METALS 6010	COMMENTS	LAB USE
5	MW-51B (07122012)	7	7/12/12	950	WW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
6	MW36A (07122013)	7	7/12/12	1350	WW	N	G	GW	✓	✓	✓	✓		

Relinquished By: WE WILLIAMS	Date Time: 7/12/12 1500	Received By: FX	Date Time:	Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	Date Time:	Received By: COURIER (ALSE)	Date Time: 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact [ ] Yes [ ] No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94850: Chain of Custody
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COC # F94850

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E WASHINGTON ST., STE 600
City, State, Zip: INDIANAPOLIS, IN. 46204
Project #:
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317.557.9115 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
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- [ ] Level III
- [X] Level IV
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SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270SIM	TOT. METALS 6010	DISS. METALS 6010	COMMENTS	LAB USE
7	MW34A (07122012)	1	7/12/12	1045	WW	N	G	GW	✓	✓	✓	✓	6010: ARSENIC & LEAD ONLY	
8	MW 6D (07122012)	1		1150					✓	✓	✓	✓		
9	MW55 (07122012)	1		1250					✓	✓	✓	✓		
10	MW30B (07122012)	1		1445					✓	✓	✓	✓		
11	MW30A (07122012)	1	↓	1530	↓	↓	↓	↓	✓	✓	✓	✓		

Relinquished By: WES WILLIAMS	Date/Time: 7/12/12 1700	Received By: FX	Date Time:	Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED	
Relinquished By: FX	Date Time:	Received By: COURIER (ALSP)	Date Time: 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact [ ] Yes [ ] No	Custody Seal #	LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

F94850: Chain of Custody
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COC # F94850

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 7415827
CSXT Project Name: IN Creosote
CSXT Contact: Paul J Kurzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company:
Address:
City, State, Zip:
Project #:
PM:
Email:
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
  Specify # Days
- [x] Standard 14 Days
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- [x] Other Deliv: CD only
  No hard copy
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SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM	Total Metals 6010	Dissolved Metals 6010	COMMENTS	LAB USE
2	MW-49A(071212)	1	7/12/12	10:46	MW	N	G	GW	X	X	X	X	6010: Lead & Arsenic only lab filter & preserve	
13	MW-49B(071212)	1	7/12/12	11:11	MW	N	G	GW	X	X	X	X		
14	MW-49C(071212)	1	7/12/12	11:41	MW	N	G	GW	X	X	X	X		
5	MW-38B(071212)	1	7/12/12	15:54	BC	N	G	GW	X	X	X	X		

Relinquished By: Mike White	Date Time: 7/12/12 5:00	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See attached table for site-specific constituents to be analyzed	
Relinquished By: FX	Date Time:	Received By: J. Cooke (AISE)	Date Time: 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94850: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94850 CLIENT: ARCADIS PROJECT: 9415829

DATE/TIME RECEIVED: 7-13-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8580 9991 3843

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 4
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 15

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.1 2.6 3.2 2.4
- [ ] CORRECTED TEMPS: 2.8 3.0 3.6 2.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [X] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: FOR SAMPLE #4 RECEIVED 1 VIAL (B260) BROKEN

SAMPLE #15 COC: ~~15~~ KM 15:54 LABELS: 15:59

TECHNICIAN SIGNATURE/DATE: 7-13-12 REVIEWER SIGNATURE/DATE: 07/13/12

NF 12/10

receipt confirmation 122910.xls

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F94850: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

07/31/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F94919

Sampling Date: 07/13/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **101**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: F94919

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94919-1	07/13/12	13:25	WWMW	07/14/12	AQ	Ground Water	MW 45A (07132012)
F94919-1F	07/13/12	13:25	WWMW	07/14/12	AQ	Groundwater Filtered	MW 45A (07132012)
F94919-2	07/13/12	12:50	WWMW	07/14/12	AQ	Ground Water	MW 45B (07132012)
F94919-2F	07/13/12	12:50	WWMW	07/14/12	AQ	Groundwater Filtered	MW 45B (07132012)
F94919-3	07/13/12	11:55	WWMW	07/14/12	AQ	Ground Water	MW 45C (07132012)
F94919-3F	07/13/12	11:55	WWMW	07/14/12	AQ	Groundwater Filtered	MW 45C (07132012)
F94919-4	07/13/12	00:00	WWMW	07/14/12	AQ	Ground Water	DUP-2 (07132012)
F94919-4F	07/13/12	00:00	WWMW	07/14/12	AQ	Groundwater Filtered	DUP-2 (07132012)
F94919-5	07/13/12	13:23	WWMW	07/14/12	AQ	Ground Water	MW-44A (07132012)
F94919-5D	07/13/12	13:23	WWMW	07/14/12	AQ	Water Dup/MSD	MW-44A (07132012)
F94919-5F	07/13/12	13:23	WWMW	07/14/12	AQ	Groundwater Filtered	MW-44A (07132012)
F94919-5FD	07/13/12	13:23	WWMW	07/14/12	AQ	Water Dup/MSD	MW-44A (07132012)
F94919-5FS	07/13/12	13:23	WWMW	07/14/12	AQ	Water Matrix Spike	MW-44A (07132012)

Sample Summary
(continued)

CSX Transportation

Job No: F94919

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94919-5S	07/13/12	13:23	WWMW	07/14/12	AQ	Water Matrix Spike	MW-44A (07132012)
F94919-6	07/13/12	14:48	WWMW	07/14/12	AQ	Ground Water	MW-29A (07132012)
F94919-7	07/13/12	15:55	WWMW	07/14/12	AQ	Ground Water	MW-31A (07132012)
F94919-7F	07/13/12	15:55	WWMW	07/14/12	AQ	Groundwater Filtered	MW-31A (07132012)
F94919-8	07/13/12	15:55	WWMW	07/14/12	AQ	Ground Water	MW 31B (07132012)
F94919-8F	07/13/12	15:55	WWMW	07/14/12	AQ	Groundwater Filtered	MW 31B (07132012)
F94919-9	07/13/12	15:05	WWMW	07/14/12	AQ	Ground Water	MW 31C (07132012)
F94919-9F	07/13/12	15:05	WWMW	07/14/12	AQ	Groundwater Filtered	MW 31C (07132012)
F94919-10	07/13/12	10:50	WWMW	07/14/12	AQ	Ground Water	MW 26A (07132012)
F94919-10F	07/13/12	10:50	WWMW	07/14/12	AQ	Groundwater Filtered	MW 26A (07132012)
F94919-11	07/13/12	10:00	WWMW	07/14/12	AQ	Ground Water	MW 54B (07132012)
F94919-11F	07/13/12	10:00	WWMW	07/14/12	AQ	Groundwater Filtered	MW 54B (07132012)
F94919-12	07/13/12	08:40	WWMW	07/14/12	AQ	Ground Water	MW 17D (07132012)

Sample Summary
(continued)

CSX Transportation

Job No: F94919

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F94919-13	07/13/12	09:15	WWMW	07/14/12	AQ	Ground Water	MW-10 (07132012)
F94919-14	07/13/12	09:54	WWMW	07/14/12	AQ	Ground Water	MW-11D (07132012)
F94919-14F	07/13/12	09:54	WWMW	07/14/12	AQ	Groundwater Filtered	MW-11D (07132012)
F94919-15	07/13/12	10:41	WWMW	07/14/12	AQ	Ground Water	MW-40C (07132012)
F94919-15F	07/13/12	10:41	WWMW	07/14/12	AQ	Groundwater Filtered	MW-40C (07132012)
F94919-16	07/13/12	11:12	WWMW	07/14/12	AQ	Ground Water	MW-40B (07132012)
F94919-16F	07/13/12	11:12	WWMW	07/14/12	AQ	Groundwater Filtered	MW-40B (07132012)
F94919-17	07/13/12	12:14	WWMW	07/14/12	AQ	Ground Water	MW-40A (07132012)
F94919-17F	07/13/12	12:14	WWMW	07/14/12	AQ	Groundwater Filtered	MW-40A (07132012)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F94919

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2012 3:59:50 PM

17 Sample(s) were collected on 07/13/2012 and were received at Accutest SE on 07/14/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F94919. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2478

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5MS, F94919-5MSD were used as the QC samples indicated.

F94919-2: Sample was not preserved to a pH < 2.

F94919-12: Sample was not preserved to a pH < 2.

Matrix: AQ **Batch ID:** VN2556

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94966-1MS, F94966-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP42713

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5MS, F94919-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP42713-MS, OP42733-MS have surrogates outside control limits. Probable cause is due to matrix interference.

F94919-10: Dilution required due to high PAH levels.

F94919-11: Dilution required due to high PAH levels.

OP42713-MS for 2-Fluorophenol, Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP42733

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-12MS, F94919-12MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Phenol are outside control limits for sample OP42733-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP42713-MS, OP42733-MS have surrogates outside control limits. Probable cause is due to matrix interference.

OP42733-MS for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42714

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5MS, F94919-5MSD were used as the QC samples indicated.

Sample(s) F94919-3, F94919-10, F94919-11 have surrogates outside control limits. Probable cause is due to matrix interference.

OP42714-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94919-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F94919-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94919-3 for Terphenyl-d14: Outside control limits due to dilution.

F94919-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-9 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-9 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-9 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-9 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-10 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94919-10 for Nitrobenzene-d5: Outside control limits due to dilution.

F94919-10 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94919-10 for Terphenyl-d14: Outside control limits due to dilution.

F94919-11 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F94919-11 for Nitrobenzene-d5: Outside control limits due to dilution.

F94919-11 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F94919-11 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP42734

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-16MS, F94919-16MSD were used as the QC samples indicated.

Sample(s) F94919-3, F94919-10, F94919-11 have surrogates outside control limits. Probable cause is due to matrix interference.

OP42734-MB for 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl, Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-12 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-12 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-12 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-12 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-13 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-13 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-13 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-13 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-14 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-14 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-14 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-14 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-15 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-15 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-15 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-15 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-16 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-16 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-16 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-16 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F94919-17 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F94919-17 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F94919-17 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F94919-17 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23240

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5DUP, F94919-5MS, F94919-5MSD, F94919-5PS, F94919-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP23240-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

F94919-12 for Lead: Elevated reporting limit(s) due to matrix interference.

F94919-15 for Lead: Elevated reporting limit(s) due to matrix interference.

Matrix: AQ **Batch ID:** MP23244

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F94919-5FDUP, F94919-5FMS, F94919-5FMSD, F94919-5FPS, F94919-5FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 30, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F94919
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94919-1	**MW 45A (07132012)**					
Naphthalene		0.0011	0.00095		mg/l	SW846 8270D BY SIM
F94919-1F	**MW 45A (07132012)**					
No hits reported in this sample.						
F94919-2	**MW 45B (07132012)**					
Arsenic		0.0146	0.010		mg/l	SW846 6010C
Lead		0.0146	0.0050		mg/l	SW846 6010C
F94919-2F	**MW 45B (07132012)**					
No hits reported in this sample.						
F94919-3	**MW 45C (07132012)**					
Carbazole		0.0615	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0523	0.0048		mg/l	SW846 8270D
Acenaphthene		0.178	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0927	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.545	0.048		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0476	0.019		mg/l	SW846 8270D BY SIM
Arsenic		0.0303	0.010		mg/l	SW846 6010C
Lead		0.0760	0.0050		mg/l	SW846 6010C
F94919-3F	**MW 45C (07132012)**					
No hits reported in this sample.						
F94919-4	**DUP-2 (07132012)**					
No hits reported in this sample.						
F94919-4F	**DUP-2 (07132012)**					
No hits reported in this sample.						
F94919-5	**MW-44A (07132012)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94919
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94919-5F	**MW-44A (07132012)**					
No hits reported in this sample.						
F94919-6	**MW-29A (07132012)**					
Acenaphthene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0010	0.00095		mg/l	SW846 8270D BY SIM
F94919-7	**MW-31A (07132012)**					
No hits reported in this sample.						
F94919-7F	**MW-31A (07132012)**					
No hits reported in this sample.						
F94919-8	**MW 31B (07132012)**					
No hits reported in this sample.						
F94919-8F	**MW 31B (07132012)**					
No hits reported in this sample.						
F94919-9	**MW 31C (07132012)**					
Arsenic		0.0137	0.010		mg/l	SW846 6010C
F94919-9F	**MW 31C (07132012)**					
Arsenic		0.0112	0.010		mg/l	SW846 6010C
F94919-10	**MW 26A (07132012)**					
Benzene		0.0259	0.0050		mg/l	SW846 8260B
Toluene		0.0986	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0504	0.0050		mg/l	SW846 8260B
Xylene (total)		0.155	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0339	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0760	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0495	0.019		mg/l	SW846 8270D
Pentachlorophenol		0.0723	0.019		mg/l	SW846 8270D BY SIM
Acenaphthene		0.0626	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0408	0.019		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: F94919
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2-Methylnaphthalene		0.122	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		3.38	0.19		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0425	0.019		mg/l	SW846 8270D BY SIM
Arsenic		0.0145	0.010		mg/l	SW846 6010C
F94919-10F	**MW 26A (07132012)**					
Arsenic		0.0121	0.010		mg/l	SW846 6010C
F94919-11	**MW 54B (07132012)**					
Benzene		0.0949	0.0050		mg/l	SW846 8260B
Toluene		0.0357	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0967	0.0050		mg/l	SW846 8260B
Xylene (total)		0.120	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0835	0.019		mg/l	SW846 8270D
2-Methylphenol [a]		0.0205	0.019		mg/l	SW846 8270D
3&4-Methylphenol [a]		0.0256	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0866	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0714	0.019		mg/l	SW846 8270D
Acenaphthene		0.183	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0590	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.194	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		2.95	0.19		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0502	0.019		mg/l	SW846 8270D BY SIM
F94919-11F	**MW 54B (07132012)**					
No hits reported in this sample.						
F94919-12	**MW 17D (07132012)**					
2,4-Dimethylphenol		0.0210	0.0048		mg/l	SW846 8270D
2-Methylphenol		0.0133	0.0048		mg/l	SW846 8270D
3&4-Methylphenol		0.0083	0.0048		mg/l	SW846 8270D
Phenol		0.0085	0.0048		mg/l	SW846 8270D
Carbazole		0.0096	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0107	0.0038		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0156	0.0038		mg/l	SW846 8270D BY SIM
Naphthalene		0.356	0.0095		mg/l	SW846 8270D BY SIM
F94919-13	**MW-10 (07132012)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F94919
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F94919-14	**MW-11D (07132012)**					
No hits reported in this sample.						
F94919-14F	**MW-11D (07132012)**					
No hits reported in this sample.						
F94919-15	**MW-40C (07132012)**					
Acenaphthene		0.0108	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0087	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0075	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.00095	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0047	0.00095		mg/l	SW846 8270D BY SIM
F94919-15F	**MW-40C (07132012)**					
No hits reported in this sample.						
F94919-16	**MW-40B (07132012)**					
Acenaphthene		0.0029	0.00095		mg/l	SW846 8270D BY SIM
F94919-16F	**MW-40B (07132012)**					
No hits reported in this sample.						
F94919-17	**MW-40A (07132012)**					
No hits reported in this sample.						
F94919-17F	**MW-40A (07132012)**					
No hits reported in this sample.						

(a) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW 45A (07132012)		
Lab Sample ID:	F94919-1	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060755.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45A (07132012)		
Lab Sample ID:	F94919-1	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024473.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45A (07132012)		
Lab Sample ID:	F94919-1	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066498.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0011	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	53% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45A (07132012)		
Lab Sample ID:	F94919-1	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 45A (07132012)		
Lab Sample ID:	F94919-1F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 45B (07132012)		
Lab Sample ID:	F94919-2	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0060756.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45B (07132012)		
Lab Sample ID:	F94919-2	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024474.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45B (07132012)		
Lab Sample ID:	F94919-2	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066558.D	1	07/27/12	MG	07/19/12	OP42714	SW3237
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	47% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45B (07132012)		
Lab Sample ID:	F94919-2	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0146	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0146	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 45B (07132012)		
Lab Sample ID:	F94919-2F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 45C (07132012)		
Lab Sample ID:	F94919-3	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061178.D	1	07/19/12	RB	n/a	n/a	VN2556
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45C (07132012)		
Lab Sample ID:	F94919-3	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024475.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0615	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0523	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45C (07132012)		
Lab Sample ID:	F94919-3	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066559.D	20	07/27/12	MG	07/19/12	OP42714	SW3237
Run #2	W066621.D	50	07/30/12	MG	07/19/12	OP42714	SW3239

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.178	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0927	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.019	mg/l	
91-20-3	Naphthalene	0.545 [a]	0.048	mg/l	
85-01-8	Phenanthrene	0.0476	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 45C (07132012)		
Lab Sample ID:	F94919-3	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0303	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0760	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 45C (07132012)		
Lab Sample ID:	F94919-3F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (07132012)		
Lab Sample ID:	F94919-4	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060757.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07132012)		
Lab Sample ID:	F94919-4	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024476.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07132012)		
Lab Sample ID:	F94919-4	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066501.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	63% [a]		33-118%
4165-60-0	Nitrobenzene-d5	50% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (07132012)		
Lab Sample ID:	F94919-4	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID: DUP-2 (07132012)
Lab Sample ID: F94919-4F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 07/13/12
Date Received: 07/14/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (07132012)		
Lab Sample ID:	F94919-5	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060758.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (07132012)		
Lab Sample ID:	F94919-5	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024477.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (07132012)		
Lab Sample ID:	F94919-5	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066502.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	54% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (07132012)		
Lab Sample ID:	F94919-5	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (07132012)		
Lab Sample ID:	F94919-5F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A (07132012)		
Lab Sample ID:	F94919-6	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060759.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (07132012)		
Lab Sample ID:	F94919-6	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024480.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	20%		10-40%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (07132012)		
Lab Sample ID:	F94919-6	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066503.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0016	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0010	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59% [a]		33-118%
4165-60-0	Nitrobenzene-d5	46% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (07132012)		
Lab Sample ID:	F94919-6	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (07132012)		
Lab Sample ID:	F94919-7	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060760.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (07132012)		
Lab Sample ID:	F94919-7	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024481.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (07132012)		
Lab Sample ID:	F94919-7	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066504.D	1	07/25/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (07132012)		
Lab Sample ID:	F94919-7	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (07132012)		
Lab Sample ID:	F94919-7F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 31B (07132012)		
Lab Sample ID:	F94919-8	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060761.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31B (07132012)		
Lab Sample ID:	F94919-8	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024482.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31B (07132012)		
Lab Sample ID:	F94919-8	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066505.D	1	07/26/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31B (07132012)		
Lab Sample ID:	F94919-8	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 31B (07132012)		
Lab Sample ID:	F94919-8F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 31C (07132012)		
Lab Sample ID:	F94919-9	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060762.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31C (07132012)		
Lab Sample ID:	F94919-9	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024483.D	1	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31C (07132012)		
Lab Sample ID:	F94919-9	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066506.D	1	07/26/12	MG	07/19/12	OP42714	SW3235
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 31C (07132012)		
Lab Sample ID:	F94919-9	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0137	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 31C (07132012)		
Lab Sample ID:	F94919-9F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0112	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 26A (07132012)		
Lab Sample ID:	F94919-10	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061176.D	1	07/19/12	RB	n/a	n/a	VN2556
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0259	0.0050	mg/l	
108-88-3	Toluene	0.0986	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0504	0.0050	mg/l	
1330-20-7	Xylene (total)	0.155	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 26A (07132012)		
Lab Sample ID:	F94919-10	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X024484.D	4	07/25/12	FS	07/19/12	OP42713	SX1189
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0339	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0760	0.019	mg/l	
132-64-9	Dibenzofuran	0.0495	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW 26A (07132012)
Lab Sample ID: F94919-10 **Date Sampled:** 07/13/12
Matrix: AQ - Ground Water **Date Received:** 07/14/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066507.D	20	07/26/12	MG	07/19/12	OP42714	SW3235
Run #2	W066560.D	200	07/27/12	MG	07/19/12	OP42714	SW3237

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0723	0.019	mg/l	
83-32-9	Acenaphthene	0.0626	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0408	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.122	0.019	mg/l	
91-20-3	Naphthalene	3.38 [a]	0.19	mg/l	
85-01-8	Phenanthrene	0.0425	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 26A (07132012)		
Lab Sample ID:	F94919-10	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0145	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 26A (07132012)		
Lab Sample ID:	F94919-10F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0121	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 54B (07132012)		
Lab Sample ID:	F94919-11	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0061177.D	1	07/19/12	RB	n/a	n/a	VN2556
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0949	0.0050	mg/l	
108-88-3	Toluene	0.0357	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0967	0.0050	mg/l	
1330-20-7	Xylene (total)	0.120	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 54B (07132012)		
Lab Sample ID:	F94919-11	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X024507.D	4	07/26/12	FS	07/19/12	OP42713	SX1190
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0835	0.019	mg/l	
95-48-7	2-Methylphenol	0.0205	0.019	mg/l	
	3&4-Methylphenol	0.0256	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0866	0.019	mg/l	
132-64-9	Dibenzofuran	0.0714	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 54B (07132012)		
Lab Sample ID:	F94919-11	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W066508.D	20	07/26/12	MG	07/19/12	OP42714	SW3235
Run #2	W066561.D	200	07/27/12	MG	07/19/12	OP42714	SW3237

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.183	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0590	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.194	0.019	mg/l	
91-20-3	Naphthalene	2.95 [a]	0.19	mg/l	
85-01-8	Phenanthrene	0.0502	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 54B (07132012)		
Lab Sample ID:	F94919-11	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 54B (07132012)		
Lab Sample ID:	F94919-11F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW 17D (07132012)		
Lab Sample ID:	F94919-12	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0060763.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 17D (07132012)		
Lab Sample ID:	F94919-12	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024425.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0210	0.0048	mg/l	
95-48-7	2-Methylphenol	0.0133	0.0048	mg/l	
	3&4-Methylphenol	0.0083	0.0048	mg/l	
108-95-2	Phenol	0.0085	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0096	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	83%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 17D (07132012)		
Lab Sample ID:	F94919-12	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35554.D	4	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2	R35579.D	10	07/29/12	NAF	07/20/12	OP42734	SR1690

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0038	mg/l	
83-32-9	Acenaphthene	0.0107	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.0038	mg/l	
120-12-7	Anthracene	ND	0.0038	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00076	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00076	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00076	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00076	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00076	mg/l	
218-01-9	Chrysene	ND	0.00076	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00076	mg/l	
206-44-0	Fluoranthene	ND	0.0038	mg/l	
86-73-7	Fluorene	ND	0.0038	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00076	mg/l	
91-57-6	2-Methylnaphthalene	0.0156	0.0038	mg/l	
91-20-3	Naphthalene	0.356 [a]	0.0095	mg/l	
85-01-8	Phenanthrene	ND	0.0038	mg/l	
129-00-0	Pyrene	ND	0.0038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	103% [b]	104% [b]	33-118%
4165-60-0	Nitrobenzene-d5	103% [b]	91% [b]	42-108%
321-60-8	2-Fluorobiphenyl	91% [b]	89% [b]	40-106%
1718-51-0	Terphenyl-d14	113% [b]	103% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW 17D (07132012)		
Lab Sample ID:	F94919-12	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	< 0.010	0.010	mg/l	2	07/18/12	07/19/12	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA9966
(2) Instrument QC Batch: MA9970
(3) Prep QC Batch: MP23240

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-10 (07132012)
Lab Sample ID: F94919-13 **Date Sampled:** 07/13/12
Matrix: AQ - Ground Water **Date Received:** 07/14/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024428.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 (07132012)		
Lab Sample ID:	F94919-13	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35555.D	1	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	80% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (07132012)		
Lab Sample ID:	F94919-14	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060764.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (07132012)		
Lab Sample ID:	F94919-14	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024429.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (07132012)		
Lab Sample ID:	F94919-14	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35556.D	1	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	73% [a]		40-106%
1718-51-0	Terphenyl-d14	87% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (07132012)		
Lab Sample ID:	F94919-14	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-11D (07132012)		
Lab Sample ID:	F94919-14F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (07132012)		
Lab Sample ID:	F94919-15	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060765.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (07132012)		
Lab Sample ID:	F94919-15	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024430.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (07132012)		
Lab Sample ID:	F94919-15	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35557.D	1	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0108	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0087	0.00095	mg/l	
86-73-7	Fluorene	0.0075	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	0.00095	0.00095	mg/l	
129-00-0	Pyrene	0.0047	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	90% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (07132012)		
Lab Sample ID:	F94919-15	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead [a]	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (07132012)		
Lab Sample ID:	F94919-15F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (07132012)		
Lab Sample ID:	F94919-16	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060766.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (07132012)		
Lab Sample ID:	F94919-16	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024431.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (07132012)		
Lab Sample ID:	F94919-16	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35558.D	1	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0029	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (07132012)		
Lab Sample ID:	F94919-16	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (07132012)		
Lab Sample ID:	F94919-16F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (07132012)		
Lab Sample ID:	F94919-17	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0060767.D	1	07/17/12	RB	n/a	n/a	VM2478
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (07132012)		
Lab Sample ID:	F94919-17	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X024432.D	1	07/23/12	FS	07/20/12	OP42733	SX1187
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (07132012)		
Lab Sample ID:	F94919-17	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R35559.D	1	07/27/12	MG	07/20/12	OP42734	SR1689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	57% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (07132012)		
Lab Sample ID:	F94919-17	**Date Sampled:**	07/13/12
Matrix:	AQ - Ground Water	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/18/12	07/18/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9966
(2) Prep QC Batch: MP23240

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (07132012)		
Lab Sample ID:	F94919-17F	**Date Sampled:**	07/13/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/19/12	07/19/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA9969
(2) Prep QC Batch: MP23244

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F94919

CSX TRANSPORTATION CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53226

CONSULTANT INFORMATION
Company: ARCADIS
Address: 1320 E. WASHINGTON ST, STE 650
City, State, Zip: INDIANAPOLIS IN, 46201
Project #: IN000007.0061
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317.231.6505 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliverables: DATA CD ONLY NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; LIQ = Liquid; SOL = Other Solid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	BLOCS 8270 SIM	TOT. METALS 6010	DISS. METALS 6010	COMMENTS	LAB USE
1	MW45A (07132012)	7	7/13/12	1325	MW	N	G	GW	✓	✓	✓	✓	6010 ARSENIC & LEAD ONLY	
2	MW45B (07132012)	7		1250					✓	✓	✓	✓		
3	MW45C (07132012)	7		1155					✓	✓	✓	✓		
4	DUP-2 (07132012) MW	7	↓	--	↓	↓	↓	↓	✓	✓	✓	✓		

Relinquished By: WILLIAMS	Date Time: 7/13/12 1730	Received By: FX	Date Time:	Comments & Special Analytical Requirements: SEE ATTACHED TABLE FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	Date Time: 7/14/12 9:30	Received By: [illegible] ALSE	Date Time: 7/14/12 9:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

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INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 7415829
Proj. State (State of Origin): IN
CSXT Project Name: IN Creosote
Proj. City: Bloomington
CSXT Contact: Paul J Kurzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: ARCADIS
City, State, Zip: Indianapolis, IN 46204
Project #:
PM: Bryant Griggs
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317.231.6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [x] ~~3 Day Rush~~
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	Total metals 6010	Dissolved metals 6010	COMMENTS	LAB USE
5	MW-44A (071312)	19	7/13/12	13:23	MW	N	G	GW	X	X	X	X	Gold: Lead + Arsenic only lab filter & preserve	
6	MW-29A (071312)	5	7/13/12	14:48	MW	N	G	GW	X	X	X	X		
7	MW-31A (071312)	7	7/13/12	15:55	MW	N	G	GW	X	X	X	X		

Relinquished By: Nick Winters	Date Time: 7/13/12 5:30	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 7/14/12 9:30	Received By: ALSE	Date Time: 7/14/12 9:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

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INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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Page 2 of 6

F94919

COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: PAUL J. KURZANSKI
Proj. State (State of Origin): IN
Proj. City: ~~BLOOMINGTON~~ BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST. STE 600
City, State, Zip: INDIANAPOLIS, IN. 46204
Project #: IN000012.0006
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY. NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SO = Soil; SL = Sludge; OI = Oil; LIQ = Liquid; SOL = Other Solid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCS 8270SIM	TOTAL METALS 6010D	DISS METALS 6010D	COMMENTS	LAB USE
3	MW31B (07132012)	1	7/13/12	1555	WW	N	G	GW	✓	✓	✓	✓	GOOD: ARSENIC & LEAD ONLY	
9	MW31C (07132012)	1	7/13/12	1505	WW	N	G	GW	✓	✓	✓	✓		
10	MW26A (07132012)	1	7/13/12	1050	WW	N	G	GW	✓	✓	✓	✓		
1	MW54B (07132012)	1	7/13/12	1000	WW	N	G	GW	✓	✓	✓	✓		
2	MW17D (07132012)	6	7/13/12	840	WW	N	G	GW	✓	✓	✓			

Relinquished By: MBS WILLIAMS	Date Time: 7/13/12 1730	Received By: FX	Date Time:	Comments & Special Analytical Requirements: SEE ATTACHED TABLES FOR SITE SPECIFIC CONSTITUENTS TO BE ANALYZED
Relinquished By: FX	Date Time: 7/14/12 9:30	Received By: ARSE	Date Time: 7/14/12 9:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

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INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941S829
CSXT Project Name: IN Crossie
CSXT Contact: Paul J Kurzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: ARCADIS
City, State, Zip: Indianapolis, IN 46204
Project #:
PM: Bryant Griggs
Email: Bryant.Griggs@ARCADIS-US.com
Phone: 317.231.C500 Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: CO only — no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ — Note Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	PAHs 8270 SIM	Total Metals 6010	Dissolved metals 6010					COMMENTS	LAB USE
3	MW-10 (71312)	1	07/13/12	09:15	MW	N	G	GW		X							6010: Lead & Arsenic only lab filtered preserve	
4	MW-11D (071312)	7	07/13/12	09:54	MW	N	G	GW										
5	MW-40C (071312)	7	07/13/12	10:41	MW	N	G	GW										
6	MW-40B (071312)	7	07/13/12	11:12	MW	N	G	GW										
7	MW-40A (071312)	7	07/13/12	12:14	MW	N	G	GW										

Relinquished By: Mike Winter	Date/Time: 7/13/12 5:30	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See attached table for site specific constituents to be analyzed
Relinquished By: FX	Date/Time: 7/14/12 9:30	Received By: Scott Hall ARSE	Date Time: 7/14/12 9:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

2.8 3.0 3.2 2.6

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F94919: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F94919 CLIENT: ARCADIS PROJECT: IN CREOSOTE

DATE/TIME RECEIVED: 07/14/12 9:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8610 5416 1134

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK (4)
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID #3 CORR. FACTOR 0.0
- [ ] OBSERVED TEMPS: 2.8 3.0 3.2 2.6
- [ ] CORRECTED TEMPS: 2.8 3.0 3.2 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: RECEIVED (1) 40 mL VIAL (8260) BROKEN FOR SAMPLES #6 AND #15. RECEIVED ONLY (1) 1000 mL AMBER (8270) FOR SAMPLE #13

TECHNICIAN SIGNATURE/DATE 07/14/12 REVIEWER SIGNATURE/DATE 07/14/12

NF 12/10 receipt confirmation 122910.xls

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F94919: Chain of Custody

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Table 1. Chemicals of Concern

	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Units				
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F94919: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

10/16/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97521

Sampling Date: 10/01/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **22**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97521

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F97521-1	10/01/12	00:00	EG	10/02/12	AQ	Trip Blank Water	TRIP BLANK
F97521-2	10/01/12	13:15	EG	10/02/12	AQ	Ground Water	MW-48B (100112)
F97521-2D	10/01/12	13:15	EG	10/02/12	AQ	Water Dup/MSD	MW-48B (100112)
F97521-2F	10/01/12	13:15	EG	10/02/12	AQ	Groundwater Filtered	MW-48B (100112)
F97521-2FD	10/01/12	13:15	EG	10/02/12	AQ	Groundwater Filtered	MW-48B (100112)
F97521-2FS	10/01/12	13:15	EG	10/02/12	AQ	Groundwater Filtered	MW-48B (100112)
F97521-2S	10/01/12	13:15	EG	10/02/12	AQ	Water Matrix Spike	MW-48B (100112)
F97521-3	10/01/12	00:00	EG	10/02/12	AQ	Ground Water	DUP-1 (100112)-EG
F97521-3F	10/01/12	00:00	EG	10/02/12	AQ	Groundwater Filtered	DUP-1 (100112)-EG

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97521

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/16/2012 9:47:42 AM

2 Samples and 1 Trip Blank were collected on 10/01/2012 and were received at Accutest SE on 10/02/2012 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of F97521. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2553

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97610-1MS, F97610-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike. F97521-2: Dilution required due to matrix interference (non-target compounds above calibration range).

F97521-3: Dilution required due to matrix interference (non-target compounds above calibration range).

Matrix: AQ **Batch ID:** VM2557

F97521-2: Confirmation run.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43850

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2MS2, F97521-2MSD2 were used as the QC samples indicated.

Blank Spike Recovery(s) for 3&4-Methylphenol are outside control limits. Recovery biased high, but samples are ND for 3&4-Methylphenol.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP43850-MS2, OP43850-MSD2 have surrogates outside control limits. Probable cause is due to matrix interference.

F97521-2: Dilution required due to high PAH levels.

F97521-3: Dilution required due to high PAH levels.

F97521-2 for 3&4-Methylphenol: Associated BS recovery outside control limits.

F97521-3 for 3&4-Methylphenol: Associated BS recovery outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2MS, F97521-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Fluoranthene, Fluorene, Phenanthrene, Pyrene are outside control limits.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

Matrix Spike Recovery(s) for Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Acenaphthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP43851-MSD2. Probable cause is due to sample non-homogeneity.
Sample(s) F97521-2, F97521-3, OP43851-MS2, OP43851-MSD2 have surrogates outside control limits.

OP43851-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43851-MS2/MSD2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43851-MS2/MSD2 for Nitrobenzene-d5: Outside control limits due to dilution.

OP43851-MS2/MSD2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43851-MS2/MSD2 for Terphenyl-d14: Outside control limits due to dilution.

F97521-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97521-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F97521-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97521-2 for Terphenyl-d14: Outside control limits due to dilution.

F97521-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97521-3 for Nitrobenzene-d5: Outside control limits due to dilution.

F97521-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97521-3 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23810

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2DUP, F97521-2MS, F97521-2MSD, F97521-2PS, F97521-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23810-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP23822

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2FDUP, F97521-2FMS, F97521-2FMSD, F97521-2FPS, F97521-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP23822-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 16, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97521
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/01/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97521-1	**TRIP BLANK**					
No hits reported in this sample.						
F97521-2	**MW-48B (100112)**					
Benzene [a]		0.0561	0.013		mg/l	SW846 8260B
Toluene [a]		0.113	0.013		mg/l	SW846 8260B
Ethylbenzene [a]		0.0385	0.013		mg/l	SW846 8260B
Xylene (total) [a]		0.126	0.038		mg/l	SW846 8260B
2,4-Dimethylphenol [b]		0.125	0.019		mg/l	SW846 8270D
Carbazole [b]		0.0769	0.019		mg/l	SW846 8270D
Dibenzofuran [b]		0.0463	0.019		mg/l	SW846 8270D
2-Methylnaphthalene		0.143	0.096		mg/l	SW846 8270D BY SIM
Naphthalene		2.35	0.096		mg/l	SW846 8270D BY SIM
F97521-2F	**MW-48B (100112)**					
No hits reported in this sample.						
F97521-3	**DUP-1 (100112)-EG**					
Benzene [a]		0.0734	0.010		mg/l	SW846 8260B
Toluene [a]		0.146	0.010		mg/l	SW846 8260B
Ethylbenzene [a]		0.0484	0.010		mg/l	SW846 8260B
Xylene (total) [a]		0.162	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [b]		0.102	0.019		mg/l	SW846 8270D
Carbazole [b]		0.0636	0.019		mg/l	SW846 8270D
Dibenzofuran [b]		0.0369	0.019		mg/l	SW846 8270D
2-Methylnaphthalene		0.137	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		2.26	0.095		mg/l	SW846 8270D BY SIM
F97521-3F	**DUP-1 (100112)-EG**					
No hits reported in this sample.						

(a) Dilution required due to matrix interference (non-target compounds above calibration range).
(b) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97521-1 **Date Sampled:** 10/01/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/02/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006607.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (100112)
Lab Sample ID: F97521-2 **Date Sampled:** 10/01/12
Matrix: AQ - Ground Water **Date Received:** 10/02/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M006716.D	1	10/12/12	RB	n/a	n/a	VM2557
Run #2 [b]	M006610.D	2.5	10/10/12	RB	n/a	n/a	VM2553

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0561 [c]	0.013	mg/l	
108-88-3	Toluene	0.113 [c]	0.013	mg/l	
100-41-4	Ethylbenzene	0.0385 [c]	0.013	mg/l	
1330-20-7	Xylene (total)	0.126 [c]	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	76-127%
2037-26-5	Toluene-D8	102%	104%	86-112%
460-00-4	4-Bromofluorobenzene	96%	97%	84-120%

(a) Confirmation run.
(b) Dilution required due to matrix interference (non-target compounds above calibration range).
(c) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (100112)		
Lab Sample ID:	F97521-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L059820.D	4	10/08/12	NAF	10/05/12	OP43850	SL3044
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.125	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol [b]	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0769	0.019	mg/l	
132-64-9	Dibenzofuran	0.0463	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	98%		33-118%
4165-60-0	Nitrobenzene-d5	86%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

(a) Dilution required due to high PAH levels.
(b) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (100112)		
Lab Sample ID:	F97521-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067888.D	100	10/09/12	MG	10/05/12	OP43851	SW3292
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.096	mg/l	
83-32-9	Acenaphthene	ND	0.096	mg/l	
208-96-8	Acenaphthylene	ND	0.096	mg/l	
120-12-7	Anthracene	ND	0.096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.096	mg/l	
86-73-7	Fluorene	ND	0.096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.143	0.096	mg/l	
91-20-3	Naphthalene	2.35	0.096	mg/l	
85-01-8	Phenanthrene	ND	0.096	mg/l	
129-00-0	Pyrene	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (100112)		
Lab Sample ID:	F97521-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/03/12	10/03/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/03/12	10/03/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10199
(2) Prep QC Batch: MP23810

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (100112)		
Lab Sample ID:	F97521-2F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100112)-EG		
Lab Sample ID:	F97521-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M006611.D	2	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0734	0.010	mg/l	
108-88-3	Toluene	0.146	0.010	mg/l	
100-41-4	Ethylbenzene	0.0484	0.010	mg/l	
1330-20-7	Xylene (total)	0.162	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100112)-EG		
Lab Sample ID:	F97521-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L059814.D	4	10/08/12	NAF	10/05/12	OP43850	SL3044
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.102	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol [b]	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0636	0.019	mg/l	
132-64-9	Dibenzofuran	0.0369	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Dilution required due to high PAH levels.
(b) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (100112)-EG
Lab Sample ID: F97521-3 **Date Sampled:** 10/01/12
Matrix: AQ - Ground Water **Date Received:** 10/02/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067889.D	100	10/09/12	MG	10/05/12	OP43851	SW3292
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	ND	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.137	0.095	mg/l	
91-20-3	Naphthalene	2.26	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100112)-EG		
Lab Sample ID:	F97521-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/03/12	10/03/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/03/12	10/03/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10199
(2) Prep QC Batch: MP23810

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100112)-EG		
Lab Sample ID:	F97521-3F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F97521

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC #

LABORATORY INFORMATION
Accutest — Phone: 407-425-6700
4405 Vineland Rd., Suite C-15 — Fax: 407-425-0707
Orlando, FL 32811

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St
City, State, Zip: Indianapolis, IN 46204
Project #: IN000672.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
☐ 1 Day Rush
☐ 2 Day Rush
☐ 3 Day Rush
☐ Standard 6-13 Days
Specify # Days ____
☒ Standard 14 Days
☐ Other

Deliverables:
☐ CSXT Standard (Level II)
☐ Level III
☒ Level IV
☒ Other Deliv: Data CD only, NO HARD COPY
☒ EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 | 0 | 2 | 2

METHODS FOR ANALYSIS: BTEX 8260; SVOC 8270 Site COCs only; Dissolved Metals 6010 As, Pb* ; Total Metals 6010 As, Pb

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOC 8270 Site COCs only	Dissolved Metals 6010 As, Pb*	Total Metals 6010 As, Pb	COMMENTS	LAB USE
1	Trip Blank	2 VoA	— Lab Supplied —						X					
2	MW-48B (100112)	21	10/1/12	1315	EG	N	G	GW	X	X	X	X		
3	DUP-1 (100112)-EG	7	10/1/12	—	EG	N	G	GW	X	X	X	X		

Relinquished By	Date Time	Received By	Date Time
[signature]	10/1/12 1715	Fed Ex	
FX	10-2-12 1000	[signature] ACSE	10-2-12 1000

Received By Laboratory: Date Time: Lab Remarks:

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number #

Comments & Special Analytical Requirements:
*Lab Filter and preserve
RESULTS for this COC on a stand-alone report

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
2.0
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97521: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97521 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 10-2-12 1000 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6673 8634

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [✓] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [✓] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [✓] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.0
- [ ] OBSERVED TEMPS: 2.0
- [ ] CORRECTED TEMPS: 2.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ? 4e

NUMBER OF LAB FILTERED METALS ? 4

SUMMARY OF COMMENTS: Received Extra Volume #2

TECHNICIAN SIGNATURE/DATE: 10-2-12 REVIEWER SIGNATURE/DATE: JC 10-2-12

NF 12/10

receipt confirmation 122910.xls

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F97521: Chain of Custody

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Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F97521: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

10/12/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97522

Sampling Date: 10/01/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97522

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F97522-1	10/01/12	00:00	WK	10/02/12	AQ	Trip Blank Water	TRIP BLANK
F97522-2	10/01/12	16:00	WK	10/02/12	AQ	Ground Water	MW-50A (100112)
F97522-2F	10/01/12	16:00	WK	10/02/12	AQ	Groundwater Filtered	MW-50A (100112)
F97522-3	10/01/12	16:45	WK	10/02/12	AQ	Ground Water	MW-50B (100112)
F97522-3F	10/01/12	16:45	WK	10/02/12	AQ	Groundwater Filtered	MW-50B (100112)
F97522-4	10/01/12	00:00	WK	10/02/12	AQ	Ground Water	DUP-2 (100112)-WK
F97522-4F	10/01/12	00:00	WK	10/02/12	AQ	Groundwater Filtered	DUP-2 (100112)-WK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97522

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/12/2012 9:48:25 AM

3 Sample(s), 1 Trip Blank were collected on 10/01/2012 and were received at Accutest SE on 10/02/2012 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F97522. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2553

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97610-1MS, F97610-1MSD were used as the QC samples indicated.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Ethylbenzene and Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43850

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 3&4-Methylphenol are outside control limits. Recovery biased high, but samples are ND.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP43850-MS1, OP43850-MSD1 have surrogates outside control limits.

OP43850-MS1/MSD1 for 2-Fluorophenol: Outside control limits.

OP43850-MS1/MSD1 for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Fluorene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits for sample OP43851-MSD1. Probable cause is due to sample non-homogeneity.

OP43851-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP43851-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

F97522-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97522-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97522-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97522-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97522-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97522-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97522-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97522-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97522-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97522-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97522-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97522-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23822

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2FDUP, F97521-2FMS, F97521-2FMSD, F97521-2FPS, F97521-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP23822-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: October 12, 2012

Summary of Hits

Job Number: F97522
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/01/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97522-1	**TRIP BLANK**					
No hits reported in this sample.						
F97522-2	**MW-50A (100112)**					
Naphthalene		0.0022	0.00095		mg/l	SW846 8270D BY SIM
F97522-2F	**MW-50A (100112)**					
No hits reported in this sample.						
F97522-3	**MW-50B (100112)**					
No hits reported in this sample.						
F97522-3F	**MW-50B (100112)**					
No hits reported in this sample.						
F97522-4	**DUP-2 (100112)-WK**					
No hits reported in this sample.						
F97522-4F	**DUP-2 (100112)-WK**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97522-1	**Date Sampled:**	10/01/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006608.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (100112)		
Lab Sample ID:	F97522-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006613.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (100112)		
Lab Sample ID:	F97522-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025843.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50A (100112)
Lab Sample ID: F97522-2 **Date Sampled:** 10/01/12
Matrix: AQ - Ground Water **Date Received:** 10/02/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067854.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0022	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (100112)		
Lab Sample ID:	F97522-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (100112)		
Lab Sample ID:	F97522-2F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (100112)		
Lab Sample ID:	F97522-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006614.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (100112)		
Lab Sample ID:	F97522-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025844.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	83%		40-106%
1718-51-0	Terphenyl-d14	94%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (100112)		
Lab Sample ID:	F97522-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067855.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	92% [a]		33-118%
4165-60-0	Nitrobenzene-d5	79% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	79% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (100112)		
Lab Sample ID:	F97522-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (100112)		
Lab Sample ID:	F97522-3F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (100112)-WK		
Lab Sample ID:	F97522-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006615.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100112)-WK		
Lab Sample ID:	F97522-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025845.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100112)-WK		
Lab Sample ID:	F97522-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067856.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100112)-WK		
Lab Sample ID:	F97522-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (100112)-WK		
Lab Sample ID:	F97522-4F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Certification Exceptions (IN)
- Chain of Custody

F97522
COC #

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: Data CD only, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Pres. Code — Note ➡ 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOC 8270	Total Metals 6010 As+Pb	Dissolved Metals 6010 As+Pb **	COMMENTS	LAB USE
1	Trip Blank	2 VOA	—— Lab Supplied ——						X					
2	MW-50A (100112)	7	10/1/12	1600	WK	N	G	GW	X	X	X	X		
3	MW-50B (100112)	7	10/1/12	1645	WK	N	G	GW	X	X	X	X		
4	DUP-2 (100112)-WK	7	10/1/12	—	WK	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:
Relinquished By:	10/1/12 1715	Received By: FedEx	Date Time:
Relinquished By: FedEx	10-2-12 1000	Received By:	Date Time: 10-2-12 1000
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal # #; LAB Log Number #

Comments & Special Analytical Requirements: * Lab Filter + Preserve dissolved metals

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2-4 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

F97522: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97522 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 10-02-12 1000 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4753

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.0
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: [signature] 10-2-12 REVIEWER SIGNATURE/DATE: [signature] 10-2-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F97522: Chain of Custody

Page 2 of 2

Southeast ACCUTEST LABORATORIES

10/16/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0062.00001

Accutest Job Number: F97523

Sampling Date: 10/01/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **27**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97523

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0062.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F97523-1	10/01/12	00:00	WK	10/02/12	AQ	Trip Blank Water	TRIP BLANK
F97523-2	10/01/12	13:20	WK	10/02/12	AQ	Ground Water	MW-53B (100112)
F97523-2F	10/01/12	13:20	WK	10/02/12	AQ	Groundwater Filtered	MW-53B (100112)
F97523-3	10/01/12	00:00	WK	10/02/12	AQ	Ground Water	DUP-1 (100112)-WK
F97523-3F	10/01/12	00:00	WK	10/02/12	AQ	Groundwater Filtered	DUP-1 (100112)-WK
F97523-4	10/01/12	14:20	WK	10/02/12	AQ	Ground Water	MW-53A (100112)
F97523-4D	10/01/12	14:20	WK	10/02/12	AQ	Ground Water	MW-53A (100112)
F97523-4F	10/01/12	14:20	WK	10/02/12	AQ	Groundwater Filtered	MW-53A (100112)
F97523-4FD	10/01/12	14:20	WK	10/02/12	AQ	Groundwater Filtered	MW-53A (100112)
F97523-4FS	10/01/12	14:20	WK	10/02/12	AQ	Groundwater Filtered	MW-53A (100112)
F97523-4S	10/01/12	14:20	WK	10/02/12	AQ	Ground Water	MW-53A (100112)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97523

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/16/2012 9:49:19 AM

3 Samples and 1 Trip Blank were collected on 10/01/2012 and were received at Accutest SE on 10/02/2012 properly preserved, at 2.2 Deg. C and intact. These Samples received an Accutest job number of F97523. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2553

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97610-1MS, F97610-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** VM2557

F97523-4: Confirmation run.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43850

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 3&4-Methylphenol are outside control limits. Recovery biased high, but samples are ND for 3&4-Methylphenol.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP43850-MS1, OP43850-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

OP43850-MS1/MSD1 for 2-Fluorophenol: Outside control limits.

OP43850-MS1/MSD1 for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Fluorene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits for sample OP43851-MSD1. Probable cause is due to sample non-homogeneity.

OP43851-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

F97523-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97523-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97523-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97523-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97523-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97523-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97523-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97523-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97523-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97523-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97523-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97523-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23823

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4DUP, F97523-4MS, F97523-4MSD, F97523-4PS, F97523-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP23823-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23823-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP23828

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4FDUP, F97523-4FMS, F97523-4FMSD, F97523-4FPS, F97523-4FSDL, F97553-5PS, F97553-5SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 16, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97523
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/01/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97523-1	**TRIP BLANK**					
No hits reported in this sample.						
F97523-2	**MW-53B (100112)**					
Lead		0.0073	0.0050		mg/l	SW846 6010C
F97523-2F	**MW-53B (100112)**					
No hits reported in this sample.						
F97523-3	**DUP-1 (100112)-WK**					
Lead		0.0072	0.0050		mg/l	SW846 6010C
F97523-3F	**DUP-1 (100112)-WK**					
No hits reported in this sample.						
F97523-4	**MW-53A (100112)**					
No hits reported in this sample.						
F97523-4F	**MW-53A (100112)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97523-1 **Date Sampled:** 10/01/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/02/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006609.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (100112)		
Lab Sample ID:	F97523-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006616.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (100112)		
Lab Sample ID:	F97523-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025846.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (100112)		
Lab Sample ID:	F97523-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067857.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (100112)		
Lab Sample ID:	F97523-2	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0073	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10202
(2) Prep QC Batch: MP23823

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (100112)		
Lab Sample ID:	F97523-2F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100112)-WK		
Lab Sample ID:	F97523-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006617.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (100112)-WK
Lab Sample ID: F97523-3 **Date Sampled:** 10/01/12
Matrix: AQ - Ground Water **Date Received:** 10/02/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025847.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100112)-WK		
Lab Sample ID:	F97523-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067858.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100112)-WK		
Lab Sample ID:	F97523-3	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0072	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10202
(2) Prep QC Batch: MP23823

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100112)-WK		
Lab Sample ID:	F97523-3F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (100112)		
Lab Sample ID:	F97523-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006618.D	1	10/10/12	RB	n/a	n/a	VM2553
Run #2 [a]	M006717.D	1	10/12/12	RB	n/a	n/a	VM2557

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	76-127%
2037-26-5	Toluene-D8	107%	104%	86-112%
460-00-4	4-Bromofluorobenzene	102%	99%	84-120%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (100112)		
Lab Sample ID:	F97523-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025848.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (100112)
Lab Sample ID: F97523-4 **Date Sampled:** 10/01/12
Matrix: AQ - Ground Water **Date Received:** 10/02/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067859.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (100112)		
Lab Sample ID:	F97523-4	**Date Sampled:**	10/01/12
Matrix:	AQ - Ground Water	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10202
(2) Prep QC Batch: MP23823

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (100112)		
Lab Sample ID:	F97523-4F	**Date Sampled:**	10/01/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F97523

COC #

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 94/15829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kurzenski
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Project #: IN000072.0062.00001
PM: Bryant Griggs
Address: 132 E. Washington St. Ste 600
Email: Bryant.Griggs@arcadis-us.com
City, State, Zip: Indianapolis, IN 46204
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: Data CD ONLY, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel Formant

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs Only)	Total Metals 6010 (As+Pb Only)	Dissolved Metals 6010 (As+Pb Only/Lab Filter+Preserve)	COMMENTS	LAB USE
1	TRIP BLANK	2	———	LAB	SUPPLIED	———	———		X				*LAB SUPPLIED	
2	MW-53B (100112)	7	10/01/12	1320	WK	N	G	GW	X	X	X	X		
3	DUP-1 (100112) - WK	7	10/01/12	—	WK	N	G	GW	X	X	X	X		
4	MW-53A (100112)	21	10/01/12	1420	WK	N	G	GW	X	X	X	X	*MS/MSD	

WK 10/01/12

	Date Time:	Received By:	Date Time:
Relinquished By:	10/01/12 1800	FX	
Relinquished By: FX	10-2-12 1000	[signature] ALSK	10-02-12 1000
Relinquished By:			
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements:
* Site COCs Only
* Lab filter and ~~dis~~ preserve dissolved samples
* Standalone Report For Busch Properties

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
20,22.
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97523: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97523 CLIENT: Arcadis PROJECT: FN Creosote

DATE/TIME RECEIVED: 10-02-12 1000 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6673 8656 / 8645

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 5

TEMPERATURE INFORMATION

- [ ] IR THERM ID 3 CORR. FACTOR -0.0
- [ ] OBSERVED TEMPS: 2.0, 2.2
- [ ] CORRECTED TEMPS: 2.0, 2.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: AWilliams 10-2-12 REVIEWER SIGNATURE/DATE: EC 10-2-12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F97523: Chain of Custody

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Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F97523: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

10/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97553

Sampling Date: 10/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **58**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97553

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97553-1	10/02/12	00:00	EG	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97553-2	10/02/12	14:30	EG	10/03/12	AQ	Ground Water	MW-28B (100212)
F97553-3	10/02/12	15:25	EG	10/03/12	AQ	Ground Water	MW-52A (100212)
F97553-3F	10/02/12	15:25	EG	10/03/12	AQ	Groundwater Filtered	MW-52A (100212)
F97553-4	10/02/12	00:00	EG	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97553-5	10/02/12	11:45	EG	10/03/12	AQ	Ground Water	MW-28C (100212)
F97553-5D	10/02/12	11:45	EG	10/03/12	AQ	Water Dup/MSD	MW-28C (100212)
F97553-5F	10/02/12	11:45	EG	10/03/12	AQ	Groundwater Filtered	MW-28C (100212)
F97553-5FD	10/02/12	11:45	EG	10/03/12	AQ	Groundwater Filtered	MW-28C (100212)
F97553-5FS	10/02/12	11:45	EG	10/03/12	AQ	Groundwater Filtered	MW-28C (100212)
F97553-5S	10/02/12	11:45	EG	10/03/12	AQ	Water Matrix Spike	MW-28C (100212)
F97553-6	10/02/12	13:55	EG	10/03/12	AQ	Ground Water	MW-28A (100212)
F97553-6F	10/02/12	13:55	EG	10/03/12	AQ	Groundwater Filtered	MW-28A (100212)

Sample Summary
(continued)

CSX Transportation

Job No: F97553

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97553-7	10/02/12	00:00	EG	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97553-8	10/02/12	09:28	EG	10/03/12	AQ	Ground Water	MW-42A (100212)
F97553-8F	10/02/12	09:28	EG	10/03/12	AQ	Groundwater Filtered	MW-42A (100212)
F97553-9	10/02/12	09:10	EG	10/03/12	AQ	Ground Water	MW-42B (100212)
F97553-9F	10/02/12	09:10	EG	10/03/12	AQ	Groundwater Filtered	MW-42B (100212)
F97553-10	10/02/12	10:18	EG	10/03/12	AQ	Ground Water	MW-39B (100212)
F97553-10F	10/02/12	10:18	EG	10/03/12	AQ	Groundwater Filtered	MW-39B (100212)
F97553-11	10/02/12	11:05	EG	10/03/12	AQ	Ground Water	MW-43A (100212)
F97553-11F	10/02/12	11:05	EG	10/03/12	AQ	Groundwater Filtered	MW-43A (100212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97553

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/17/2012 1:30:01 PM

8 Samples and 1 Trip Blank were collected on 10/02/2012 and were received at Accutest SE on 10/03/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F97553. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2554

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97745-5MS, F97745-5MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VN2659

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5MS, F97553-5MSD were used as the QC samples indicated.

F97553-5: Confirmation run.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43850

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 3&4-Methylphenol are outside control limits. Recovery biased high, but samples are ND.

Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) OP43850-MS1, OP43850-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

OP43850-MS1/MSD1 for 2-Fluorophenol: Outside control limits.

OP43850-MSD/MSD1 for Phenol-d5: Outside control limits

Matrix: AQ **Batch ID:** OP43879

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97712-2MS, F97712-2MSD were used as the QC samples indicated.

Sample(s) OP43879-MS has surrogates outside control limits. Probable cause is due to matrix interference.

OP43879-MS for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43901

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5MS, F97553-5MSD were used as the QC samples indicated.

Sample(s) OP43901-MS1, OP43901-MSD1 have surrogates outside control limits. Probable cause is due to matrix interference.

OP43901-MS1 for 2-Fluorophenol: Outside control limits.

OP43901-MS1/MSD1 for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43851

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4MS, F97523-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Fluorene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits for sample OP43851-MSD1. Probable cause is due to sample non-homogeneity.

OP43851-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43851-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP43882

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-6MS, F97553-6MSD were used as the QC samples indicated.

OP43882-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-9 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-9 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-9 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-9 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-11 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-11 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-11 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-11 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5MS, F97553-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

OP43902-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97553-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97553-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97553-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97553-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23822

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97521-2FDUP, F97521-2FMS, F97521-2FMSD, F97521-2FPS, F97521-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP23822-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP23828

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4FPS, F97523-4FSDL, F97553-5DUP, F97553-5MS, F97553-5MSD, F97553-5PS, F97553-5SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23832

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5FDUP, F97553-5FMS, F97553-5FMSD, F97553-5FPS, F97553-5FSDL, F97561-2PS, F97561-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 17, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97553
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97553-1	**TRIP BLANK**					
No hits reported in this sample.						
F97553-2	**MW-28B (100212)**					
Benzene		0.0913	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0176	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0314	0.015		mg/l	SW846 8260B
Carbazole		0.0516	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0113	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0648	0.0038		mg/l	SW846 8270D BY SIM
Fluorene		0.0178	0.00095		mg/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.0698	0.0038		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0790	0.0038		mg/l	SW846 8270D BY SIM
Naphthalene		0.0841	0.0038		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0076	0.00095		mg/l	SW846 8270D BY SIM
F97553-3	**MW-52A (100212)**					
Acenaphthene		0.0012	0.00095		mg/l	SW846 8270D BY SIM
F97553-3F	**MW-52A (100212)**					
No hits reported in this sample.						
F97553-4	**TRIP BLANK**					
No hits reported in this sample.						
F97553-5	**MW-28C (100212)**					
No hits reported in this sample.						
F97553-5F	**MW-28C (100212)**					
No hits reported in this sample.						
F97553-6	**MW-28A (100212)**					
No hits reported in this sample.						
F97553-6F	**MW-28A (100212)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F97553
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97553-7	**TRIP BLANK**					
No hits reported in this sample.						
F97553-8	**MW-42A (100212)**					
No hits reported in this sample.						
F97553-8F	**MW-42A (100212)**					
No hits reported in this sample.						
F97553-9	**MW-42B (100212)**					
No hits reported in this sample.						
F97553-9F	**MW-42B (100212)**					
No hits reported in this sample.						
F97553-10	**MW-39B (100212)**					
No hits reported in this sample.						
F97553-10F	**MW-39B (100212)**					
No hits reported in this sample.						
F97553-11	**MW-43A (100212)**					
Benzene		0.0278	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0039	0.00097		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0011	0.00097		mg/l	SW846 8270D BY SIM
Naphthalene		0.0019	0.00097		mg/l	SW846 8270D BY SIM
F97553-11F	**MW-43A (100212)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97553-1 **Date Sampled:** 10/02/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006627.D	1	10/10/12	RB	n/a	n/a	VM2554
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (100212)		
Lab Sample ID:	F97553-2	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006644.D	1	10/11/12	RB	n/a	n/a	VM2554
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0913	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0176	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0314	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (100212)		
Lab Sample ID:	F97553-2	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025851.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0516	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0113	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28B (100212)
Lab Sample ID: F97553-2 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067890.D	1	10/09/12	MG	10/05/12	OP43851	SW3292
Run #2	W067860.D	4	10/08/12	MG	10/05/12	OP43851	SW3291

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0648 [a]	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0178	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
90-12-0	1-Methylnaphthalene	0.0698 [a]	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0790 [a]	0.0038	mg/l	
91-20-3	Naphthalene	0.0841 [a]	0.0038	mg/l	
85-01-8	Phenanthrene	0.0076	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [b]	95% [b]	33-118%
4165-60-0	Nitrobenzene-d5	68% [b]	71% [b]	42-108%
321-60-8	2-Fluorobiphenyl	61% [b]	71% [b]	40-106%
1718-51-0	Terphenyl-d14	69% [b]	81% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (100212)		
Lab Sample ID:	F97553-2	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-52A (100212)
Lab Sample ID: F97553-3 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006645.D	1	10/11/12	RB	n/a	n/a	VM2554
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (100212)		
Lab Sample ID:	F97553-3	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025852.D	1	10/05/12	FS	10/05/12	OP43850	SX1248
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A (100212)
Lab Sample ID: F97553-3 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067861.D	1	10/08/12	MG	10/05/12	OP43851	SW3291
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0012	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (100212)		
Lab Sample ID:	F97553-3	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (100212)		
Lab Sample ID:	F97553-3F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97553-4 **Date Sampled:** 10/02/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006628.D	1	10/10/12	RB	n/a	n/a	VM2554
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28C (100212)
Lab Sample ID: F97553-5 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006646.D	1	10/11/12	RB	n/a	n/a	VM2554
Run #2 [a]	N0063023.D	1	10/11/12	RB	n/a	n/a	VN2659

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	104%	76-127%
2037-26-5	Toluene-D8	106%	99%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	84-120%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (100212)		
Lab Sample ID:	F97553-5	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025914.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28C (100212)
Lab Sample ID: F97553-5 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067992.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [a]		33-118%
4165-60-0	Nitrobenzene-d5	76% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (100212)		
Lab Sample ID:	F97553-5	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28C (100212)		
Lab Sample ID:	F97553-5F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-28A (100212)
Lab Sample ID: F97553-6 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063024.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28A (100212)
Lab Sample ID: F97553-6 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034170.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28A (100212)
Lab Sample ID: F97553-6 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067895.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (100212)		
Lab Sample ID:	F97553-6	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A (100212)		
Lab Sample ID:	F97553-6F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97553-7
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063022.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A (100212)
Lab Sample ID: F97553-8 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063025.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (100212)		
Lab Sample ID:	F97553-8	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034171.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	89%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A (100212)
Lab Sample ID: F97553-8 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067896.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	91% [a]		33-118%
4165-60-0	Nitrobenzene-d5	77% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (100212)		
Lab Sample ID:	F97553-8	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (100212)		
Lab Sample ID:	F97553-8F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (100212)		
Lab Sample ID:	F97553-9	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063026.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42B (100212)
Lab Sample ID: F97553-9 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034172.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-62%
4165-62-2	Phenol-d5	21%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (100212)		
Lab Sample ID:	F97553-9	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067897.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (100212)		
Lab Sample ID:	F97553-9	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (100212)		
Lab Sample ID:	F97553-9F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (100212)		
Lab Sample ID:	F97553-10	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063027.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (100212)		
Lab Sample ID:	F97553-10	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034173.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	82%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-39B (100212)
Lab Sample ID: F97553-10 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067898.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	89% [a]		33-118%
4165-60-0	Nitrobenzene-d5	76% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (100212)		
Lab Sample ID:	F97553-10	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (100212)		
Lab Sample ID:	F97553-10F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-43A (100212)
Lab Sample ID: F97553-11 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0063028.D	1	10/11/12	RB	n/a	n/a	VN2659
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0278	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (100212)		
Lab Sample ID:	F97553-11	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034174.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-43A (100212)
Lab Sample ID: F97553-11 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067899.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0039	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0011	0.00097	mg/l	
91-20-3	Naphthalene	0.0019	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (100212)		
Lab Sample ID:	F97553-11	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/04/12	10/04/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10203
(2) Prep QC Batch: MP23822

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-43A (100212)		
Lab Sample ID:	F97553-11F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97553

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0001
PM: Bryant.Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6600 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260B	SVOCs 8270D SIM only	Total Metals 6010 As + Pb	Dissolved Metals 6010 As + Pb *	COMMENTS	LAB USE
1	Trip Blank	2 VOA	—	Lab	Supplied	—	—	—	X					
2	MW-28B (100212)	6	10/2/12	1430	EG	N	G	GW	X	X	X			
3	MW-52A (100212)	7	10/2/12	1525	EG	N	G	GW	X	X	X	X		

Relinquished By: Emily Glue	Date Time: 10/2/12 1630	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: * Lab filter and preserve dissolved metals
Relinquished By: FX	Date Time:	Received By: J. Coppe (ALSE)	Date Time: 10-3-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact [ ] Yes [ ] No	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.6 3 0 2.6

F97553: Chain of Custody
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COC # F97553

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000092.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [x] Other Deliv: Data CD only, No HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Pres. Code — Note ➡ 1 0 2 6

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM only 6010	Total Metals As+Pb	Dissolved Metals 6010 As+Pb *	COMMENTS	LAB USE
Trip Blank	2 VOA	— Lab supplied —						X					
MW-28C (100212)	21	10/2/12	1145	EG	N	G	GW	X	X	X	X	MS/MSD	
MW-28A (100212)	7	10/2/12	1355	EG	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Amy Shue	10/2/12 1615	Received By: FedEx		* Lab filter and preserve dissolved metals
Relinquished By: FX	Date Time:	Received By: J. Crane (ACSE)	Date Time: 10-3-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact [ ] Yes [ ] No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F97553: Chain of Custody
Page 2 of 5

COC # F97553

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94115829
CSXT Project Name: ~~Fmr~~ IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 Low Level	Total Metals As+Pb 6010	Dissolved Metals 6010 As+Pb *	COMMENTS	LAB USE
7	Trip Blank	2 VOA	— Lab Supplied —						X					
8	MW-42A (100212)	7	10/2/12	928	EG	N	G	GW	X	X	X	X		
9	MW-42B (100212)	7	10/2/12	910	EG	N	G	GW	X	X	X	X		
10	MW-39B (100212)	7	10/2/12	1018	EG	N	G	GW	X	X	X	X		
11	MW-43A (100212)	7	10/2/12	1105	EG	N	G	GW	X	X	X	X		

Relinquished By: [signature]	Date/Time: 10/2/12 1615	Received By: FedEx	Date Time:
Relinquished By: [signature]	Date Time:	Received By: J. Cerne (ARSE)	Date Time: 10-3-12 09:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements: * Lab filter and preserve dissolved metals

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97553 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 10-3-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4764

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 3
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 1

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2 2.6 2.2
- [ ] CORRECTED TEMPS: 2.6 3.0 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 10-3-12 REVIEWER SIGNATURE/DATE: 10/03/12

NF 12/10

receipt confirmation 122910.xls

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F97553: Chain of Custody
Page 4 of 5

Table 1: Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		**Industrial**	**Residential**	
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values

Note 1: Use Current Laboratory Run Detection Limit

5.1

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F97553: Chain of Custody

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Southeast
ACCUTEST LABORATORIES

11/05/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.0001

Accutest Job Number: F97561

Sampling Date: 10/02/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **203**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97561

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.0001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97561-1	10/02/12	00:00	WK	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97561-2	10/02/12	16:25	WK	10/03/12	AQ	Ground Water	MW-34A (100212)
F97561-2D	10/02/12	16:25	WK	10/03/12	AQ	Water Dup/MSD	MW-34A (100212)
F97561-2F	10/02/12	16:25	WK	10/03/12	AQ	Groundwater Filtered	MW-34A (100212)
F97561-2FD	10/02/12	16:25	WK	10/03/12	AQ	Groundwater Filtered	MW-34A (100212)
F97561-2FS	10/02/12	16:25	WK	10/03/12	AQ	Groundwater Filtered	MW-34A (100212)
F97561-2S	10/02/12	16:25	WK	10/03/12	AQ	Water Matrix Spike	MW-34A (100212)
F97561-8	10/02/12	00:00	WK	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97561-9	10/02/12	13:15	WK	10/03/12	AQ	Ground Water	MW-37C (100212)
F97561-10	10/02/12	14:00	WK	10/03/12	AQ	Ground Water	MW-37B (100212)
F97561-10F	10/02/12	14:00	WK	10/03/12	AQ	Groundwater Filtered	MW-37B (100212)
F97561-11	10/02/12	14:30	WK	10/03/12	AQ	Ground Water	MW-37A (100212)
F97561-11F	10/02/12	14:30	WK	10/03/12	AQ	Groundwater Filtered	MW-37A (100212)

Sample Summary
(continued)

CSX Transportation

Job No: F97561

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.0001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97561-12	10/02/12	15:20	WK	10/03/12	AQ	Ground Water	MW-26A (100212)
F97561-12F	10/02/12	15:20	WK	10/03/12	AQ	Groundwater Filtered	MW-26A (100212)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97561

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/18/2012 9:58:45 AM

9 Samples and 1 Trip Blank were collected on 10/02/2012 and were received at Accutest SE on 10/03/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F97561. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ460

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97561-2MS, F97561-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ462

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97645-2MS, F97645-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43879

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97712-2MS, F97712-2MSD were used as the QC samples indicated.

Sample(s) OP43879-MS has surrogates outside control limits. Probable cause is due to matrix interference.

OP43879-MS for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43901

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97561-2MS, F97561-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 3&4-Methylphenol, Carbazole, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP43901-MS2, OP43901-MSD2 have surrogates outside control limits. Probable cause is due to matrix interference.

F97561-2, F97561-7, F97561-9, F97561-12: Dilution required due to high PAH levels.

OP43901-MS2 for 2-Fluorophenol: Outside control limits.

OP43901-MS2/MSD2 for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43882

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-6MS, F97553-6MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43882

OP43882-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43882-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97561-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97561-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97561-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97561-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP43902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97561-2MS, F97561-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Pyrene are outside control limits. Outside control limits due to dilution.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to dilution.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F97561-2, F97561-7, F97561-9, F97561-12, OP43902-MS2, OP43902-MSD2 have surrogates outside control limits. Probable cause is due to matrix interference.

OP43902-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43902-MS2/MSD2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43902-MS2/MSD2 for Nitrobenzene-d5: Outside control limits due to dilution.

OP43902-MS2/MSD2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43902-MS2/MSD2 for Terphenyl-d14: Outside control limits due to dilution.

F97561-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97561-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F97561-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97561-2 for Terphenyl-d14: Outside control limits due to dilution.

F97561-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97561-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97561-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97561-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97561-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97561-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97561-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97561-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97561-7 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97561-7 for Nitrobenzene-d5: Outside control limits due to dilution.

F97561-7 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97561-7 for Terphenyl-d14: Outside control limits due to dilution.

F97561-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97561-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97561-9 for Nitrobenzene-d5: Outside control limits due to dilution.

F97561-9 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43902

F97561-10 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97561-10 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97561-10 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97561-10 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97561-11 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97561-11 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97561-11 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97561-11 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97561-12 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97561-12 for Nitrobenzene-d5: Outside control limits due to dilution.

F97561-12 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97561-12 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23828

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97523-4FDUP, F97523-4FMS, F97523-4FMSD, F97523-4FPS, F97523-4FSDL, F97553-5PS, F97553-5SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23832

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5FPS, F97553-5FSDL, F97561-2DUP, F97561-2MS, F97561-2MSD, F97561-2PS, F97561-2SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23852

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97561-2FDUP, F97561-2FMS, F97561-2FMSD, F97561-2FPS, F97561-2FSDL, F97600-28PS, F97600-28SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 18, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97561
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97561-1	**TRIP BLANK**					
No hits reported in this sample.						
F97561-2	**MW-34A (100212)**					
Benzene		0.0797	0.0050		mg/l	SW846 8260B
Toluene		0.0195	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0686	0.0050		mg/l	SW846 8260B
Xylene (total)		0.124	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0874	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0722	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0475	0.019		mg/l	SW846 8270D
2-Methylnaphthalene		0.132	0.096		mg/l	SW846 8270D BY SIM
Naphthalene		2.21	0.096		mg/l	SW846 8270D BY SIM
F97561-2F	**MW-34A (100212)**					
No hits reported in this sample.						
F97561-8	**TRIP BLANK**					
No hits reported in this sample.						
F97561-9	**MW-37C (100212)**					
Benzene		0.0162	0.0050		mg/l	SW846 8260B
Toluene		0.0865	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0413	0.0050		mg/l	SW846 8260B
Xylene (total)		0.140	0.015		mg/l	SW846 8260B
Carbazole [a]		0.0576	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0452	0.019		mg/l	SW846 8270D
Naphthalene		1.81	0.095		mg/l	SW846 8270D BY SIM
F97561-10	**MW-37B (100212)**					
Benzene		0.0800	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0051	0.0050		mg/l	SW846 8260B
Carbazole		0.0244	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0312	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0056	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0270	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0113	0.00095		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: F97561
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97561-10F	**MW-37B (100212)**					
No hits reported in this sample.						
F97561-11	**MW-37A (100212)**					
Naphthalene		0.0011	0.00096		mg/l	SW846 8270D BY SIM
F97561-11F	**MW-37A (100212)**					
No hits reported in this sample.						
F97561-12	**MW-26A (100212)**					
Benzene		0.0286	0.0050		mg/l	SW846 8260B
Toluene		0.106	0.010		mg/l	SW846 8260B
Ethylbenzene		0.0599	0.0050		mg/l	SW846 8260B
Xylene (total)		0.222	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0516	0.019		mg/l	SW846 8270D
Carbazole [a]		0.164	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.133	0.019		mg/l	SW846 8270D
Acenaphthene		0.207	0.19		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.366	0.19		mg/l	SW846 8270D BY SIM
Naphthalene		3.99	0.19		mg/l	SW846 8270D BY SIM
Arsenic		0.0109	0.010		mg/l	SW846 6010C
F97561-12F	**MW-26A (100212)**					
No hits reported in this sample.						

(a) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97561-1
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10292.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (100212)
Lab Sample ID: F97561-2 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10293.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0797	0.0050	mg/l	
108-88-3	Toluene	0.0195	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0686	0.0050	mg/l	
1330-20-7	Xylene (total)	0.124	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (100212)		
Lab Sample ID:	F97561-2	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004530.D	4	10/11/12	FS	10/09/12	OP43901	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0874	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0722	0.019	mg/l	
132-64-9	Dibenzofuran	0.0475	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (100212)
Lab Sample ID: F97561-2 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068010.D	100	10/15/12	MG	10/09/12	OP43902	SW3297
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.096	mg/l	
83-32-9	Acenaphthene	ND	0.096	mg/l	
208-96-8	Acenaphthylene	ND	0.096	mg/l	
120-12-7	Anthracene	ND	0.096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.096	mg/l	
86-73-7	Fluorene	ND	0.096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.132	0.096	mg/l	
91-20-3	Naphthalene	2.21	0.096	mg/l	
85-01-8	Phenanthrene	ND	0.096	mg/l	
129-00-0	Pyrene	ND	0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (100212)
Lab Sample ID: F97561-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-34A (100212)
Lab Sample ID: F97561-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97561-8 **Date Sampled:** 10/02/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10299.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (100212)
Lab Sample ID: F97561-9 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10300.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0162	0.0050	mg/l	
108-88-3	Toluene	0.0865	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0413	0.0050	mg/l	
1330-20-7	Xylene (total)	0.140	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (100212)
Lab Sample ID: F97561-9 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004534.D	4	10/11/12	FS	10/09/12	OP43901	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0576	0.019	mg/l	
132-64-9	Dibenzofuran	0.0452	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	87%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (100212)
Lab Sample ID: F97561-9 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068057.D	100	10/16/12	MG	10/09/12	OP43902	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	ND	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.095	mg/l	
91-20-3	Naphthalene	1.81	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (100212)
Lab Sample ID: F97561-9
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-37B (100212)
Lab Sample ID: F97561-10 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10301.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0800	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0051	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (100212)		
Lab Sample ID:	F97561-10	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025924.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0244	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37B (100212)
Lab Sample ID: F97561-10 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067998.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0312	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0056	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0270	0.00095	mg/l	
91-20-3	Naphthalene	0.0113	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	85% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37B (100212)
Lab Sample ID: F97561-10
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-37B (100212)
Lab Sample ID: F97561-10F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-37A (100212)
Lab Sample ID: F97561-11 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10302.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (100212)		
Lab Sample ID:	F97561-11	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025925.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A (100212)
Lab Sample ID: F97561-11 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067999.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0011	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A (100212)
Lab Sample ID: F97561-11
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-37A (100212)
Lab Sample ID: F97561-11F
Matrix: AQ - Groundwater Filtered
Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-26A (100212)
Lab Sample ID: F97561-12 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10303.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2	Z10315.D	2	10/13/12	KW	n/a	n/a	VZ462

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0286	0.0050	mg/l	
108-88-3	Toluene	0.106 [a]	0.010	mg/l	
100-41-4	Ethylbenzene	0.0599	0.0050	mg/l	
1330-20-7	Xylene (total)	0.222	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	101%	76-127%
2037-26-5	Toluene-D8	98%	100%	86-112%
460-00-4	4-Bromofluorobenzene	97%	107%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-26A (100212)		
Lab Sample ID:	F97561-12	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004535.D	4	10/11/12	FS	10/09/12	OP43901	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0516	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.164	0.019	mg/l	
132-64-9	Dibenzofuran	0.133	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	91%		42-108%
321-60-8	2-Fluorobiphenyl	84%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-26A (100212)
Lab Sample ID: F97561-12 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068000.D	200	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.207	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.366	0.19	mg/l	
91-20-3	Naphthalene	3.99	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-26A (100212)
Lab Sample ID: F97561-12
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0109	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-26A (100212)
Lab Sample ID: F97561-12F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # F97561

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwzenski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ 1	0	2	0	METHODS FOR ANALYSIS	COMMENTS	LAB USE
									BTEX 8260	SVOCs 8270 (Silica Gels Only)	Total Metals (6010) (As+Pb)	Dissolved metals 6010 (As+Pb) Lab Filter and Preserve			
3	TRIP BLANK	2 VOA	—	LAB	SUPPLIED	—	—	—	X					Preserved On Ice	
4	MW-47A(100212)	7	10/02/12	0915	WK	N	G	GW	X	X	X	X			
5	MW-56A(100212)	7	10/02/12	1000	WK	N	G	GW	X	X	X	X			
6	MW-56B(100212)	7	10/02/12	1040	WK	N	G	GW	X	X	X	X			
7	MW-46A(100212)	7	10/02/12	1140	WK	N	G	GW	X	X	X	X			

Relinquished By: [signature]	Date Time: 10/02/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * Site COCs Only (SVOCs) * Lab Filter and Preserve Dissolved Metals * Standalone Report For City	
Relinquished By: FX	Date Time:	Received By: J. Comer (ALSE)	Date Time: 10-3-12 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

> WK 10/2

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97561: Chain of Custody
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CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97561

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiatkowski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.0001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs (Site COCs only) 8270 + Metals Total 6010 (As + Pb)	Dissolved Metals 6010 (As + Pb) *	COMMENTS	LAB USE
1	TRIP BLANK	2 VOA	———	LAB		SUPPLIED	———		X			Preserved On Ice	
2	MW-34A (100212)	21	10/02/12	1625	WK	N	G	GW	X	X	X	X	*MS/MSD	

WK 10/3/12

Relinquished By: Wesley KC	Date Time: 10/02/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * SVOCs, Site COCs ONLY; * Lab filter and Preserve Dissolved Metals	
Relinquished By: FX	Date Time:	Received By: Connie (ALSK)	Date Time: 10-3-12 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.1 2.8 3.0

5.1 5

F97561: Chain of Custody
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COC # F97561

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiatoski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6560 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code: 1 | D | 2 | O

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270/Site COCs only	Metals Total (As + Pb) 6010	Dissolved metals 6010 (As + Pb) w/Lab Filter + Preserv	COMMENTS	LAB USE
8	TRIP BLANK	2 VOAs	———	———	LAB SUPPLIED	———			X				LAB SUPPLIED	
9	MW-37C (100212)	7 (VOC 6)	10/02/12	1315	WK	N	G	GW	X	X	X			
10	MW-37B (100212)	7	10/02/12	1400	WK	N	G	GW	X	X	X	X		
11	MW-37A (100212)	7	10/02/12	1430	WK	N	G	GW	X	X	X	X		
12	MW-26A (100212)	7	10/02/12	1520	WK	N	G	GW	X	X	X	X		
													Preserved On Ice	
													WK 10/2/12	

Relinquished By:	Date Time: 10/02/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: *Site COCs Only for SVOCs	
Relinquished By: FX	Date Time:	Received By: J Coppe (ALSE) 09:30	Date Time:	*Lab Filter and Preserve dissolved Metals	
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97561: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97561 CLIENT: ARCADIS PROJECT: 94IS829

DATE/TIME RECEIVED: 10-3-12 09:35 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4948

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 3
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 8

TEMPERATURE INFORMATION

- [ ] IR THERM ID_____ CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.0 2.1 2.6
- [ ] CORRECTED TEMPS: 2.1 2.3 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JE 10-3-12 REVIEWER SIGNATURE/DATE 10/03/12

NF 12/10

receipt confirmation 122910.xls

F97561: Chain of Custody

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Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexy)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F97561: Chain of Custody
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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ460-MB	Z10279.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-1, F97561-2, F97561-8, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	110%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ462-MB	Z10313.D	1	10/13/12	KW	n/a	n/a	VZ462

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-12

CAS No.	Compound	Result	RL	Units	Q
108-88-3	Toluene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	103%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	107%	84-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ460-BS	Z10278.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-1, F97561-2, F97561-8, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.0	96	83-124
100-41-4	Ethylbenzene	25	25.1	100	87-118
108-88-3	Toluene	25	24.2	97	86-116
1330-20-7	Xylene (total)	75	77.7	104	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ462-BS	Z10312.D	1	10/13/12	KW	n/a	n/a	VZ462

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-88-3	Toluene	25	27.0	108	86-116

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	76-127%
2037-26-5	Toluene-D8	101%	86-112%
460-00-4	4-Bromofluorobenzene	107%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97561-2MS	Z10304.D	1	10/12/12	KW	n/a	n/a	VZ460
F97561-2MSD	Z10305.D	1	10/12/12	KW	n/a	n/a	VZ460
F97561-2	Z10293.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-1, F97561-2, F97561-8, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	79.7		25	106	105	104	97	2	83-124/11
100-41-4	Ethylbenzene	68.6		25	94.1	102	91.0	90	3	87-118/10
108-88-3	Toluene	19.5		25	46.1	106	44.8	101	3	86-116/10
1330-20-7	Xylene (total)	124		75	204	107	197	97	3	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	97%	100%	76-127%
2037-26-5	Toluene-D8	98%	98%	97%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	99%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97645-2MS	Z10336.D	1	10/13/12	KW	n/a	n/a	VZ462
F97645-2MSD	Z10337.D	1	10/13/12	KW	n/a	n/a	VZ462
F97645-2	Z10322.D	1	10/13/12	KW	n/a	n/a	VZ462

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-12

CAS No.	Compound	F97645-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	1.0	U	25	24.4	98	24.1	96	1	86-116/10

CAS No.	Surrogate Recoveries	MS	MSD	F97645-2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	102%	76-127%
2037-26-5	Toluene-D8	97%	97%	97%	86-112%
460-00-4	4-Bromofluorobenzene	105%	104%	107%	84-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ455-BFB	**Injection Date:**	10/09/12
Lab File ID:	Z10164.D	**Injection Time:**	15:01
Instrument ID:	GCMSZ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	68184	22.9		Pass
75	30.0 - 60.0% of mass 95	142744	48.0		Pass
95	Base peak, 100% relative abundance	297152	100.0		Pass
96	5.0 - 9.0% of mass 95	19223	6.47		Pass
173	Less than 2.0% of mass 174	1657	0.56	(0.60) [a]	Pass
174	50.0 - 100.0% of mass 95	277227	93.3		Pass
175	5.0 - 9.0% of mass 174	20155	6.78	(7.27) [a]	Pass
176	95.0 - 101.0% of mass 174	269184	90.6	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	16892	5.68	(6.28) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ455-IC455	Z10165.D	10/09/12	15:22	00:21	Initial cal 1
VZ455-IC455	Z10166.D	10/09/12	15:43	00:42	Initial cal 2
VZ455-IC455	Z10167.D	10/09/12	16:03	01:02	Initial cal 3
VZ455-ICC455	Z10168.D	10/09/12	16:24	01:23	Initial cal 4
VZ455-IC455	Z10169.D	10/09/12	16:45	01:44	Initial cal 5
VZ455-IC455	Z10170.D	10/09/12	17:05	02:04	Initial cal 6
VZ455-ICV455	Z10171.D	10/09/12	17:26	02:25	Initial cal verification 4
VZ455-BS	Z10172.D	10/09/12	17:47	02:46	Blank Spike
VZ455-MB	Z10173.D	10/09/12	18:07	03:06	Method Blank
ZZZZZZ	Z10174.D	10/09/12	18:28	03:27	(unrelated sample)
F97363-2	Z10175.D	10/09/12	18:48	03:47	(used for QC only; not part of job F97561)
ZZZZZZ	Z10176.D	10/09/12	19:09	04:08	(unrelated sample)
ZZZZZZ	Z10177.D	10/09/12	19:30	04:29	(unrelated sample)
ZZZZZZ	Z10178.D	10/09/12	19:50	04:49	(unrelated sample)
ZZZZZZ	Z10179.D	10/09/12	20:11	05:10	(unrelated sample)
ZZZZZZ	Z10180.D	10/09/12	20:32	05:31	(unrelated sample)
ZZZZZZ	Z10181.D	10/09/12	20:53	05:52	(unrelated sample)
ZZZZZZ	Z10182.D	10/09/12	21:13	06:12	(unrelated sample)
ZZZZZZ	Z10183.D	10/09/12	21:34	06:33	(unrelated sample)
ZZZZZZ	Z10184.D	10/09/12	21:55	06:54	(unrelated sample)
ZZZZZZ	Z10185.D	10/09/12	22:15	07:14	(unrelated sample)
ZZZZZZ	Z10186.D	10/09/12	22:36	07:35	(unrelated sample)
ZZZZZZ	Z10187.D	10/09/12	22:57	07:56	(unrelated sample)
ZZZZZZ	Z10188.D	10/09/12	23:17	08:16	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ455-BFB	**Injection Date:**	10/09/12
Lab File ID:	Z10164.D	**Injection Time:**	15:01
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z10189.D	10/09/12	23:38	08:37	(unrelated sample)
ZZZZZZ	Z10190.D	10/09/12	23:59	08:58	(unrelated sample)
ZZZZZZ	Z10191.D	10/10/12	00:19	09:18	(unrelated sample)
ZZZZZZ	Z10192.D	10/10/12	00:40	09:39	(unrelated sample)
ZZZZZZ	Z10193.D	10/10/12	01:00	09:59	(unrelated sample)
F97363-2MS	Z10194.D	10/10/12	01:21	10:20	Matrix Spike
F97363-2MSD	Z10195.D	10/10/12	01:42	10:41	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ460-BFB
Lab File ID: Z10276.D
Instrument ID: GCMSZ
Injection Date: 10/12/12
Injection Time: 08:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	60619	24.4		Pass
75	30.0 - 60.0% of mass 95	123261	49.6		Pass
95	Base peak, 100% relative abundance	248533	100.0		Pass
96	5.0 - 9.0% of mass 95	16851	6.78		Pass
173	Less than 2.0% of mass 174	1146	0.46	(0.51) [a]	Pass
174	50.0 - 100.0% of mass 95	223744	90.0		Pass
175	5.0 - 9.0% of mass 174	15175	6.11	(6.78) [a]	Pass
176	95.0 - 101.0% of mass 174	213867	86.1	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	13810	5.56	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ460-CC455	Z10277.D	10/12/12	09:06	00:21	Continuing cal 4
VZ460-BS	Z10278.D	10/12/12	09:28	00:43	Blank Spike
VZ461-BS	Z10278.D	10/12/12	09:28	00:43	Blank Spike
VZ460-MB	Z10279.D	10/12/12	09:49	01:04	Method Blank
VZ461-MB	Z10279.D	10/12/12	09:49	01:04	Method Blank
ZZZZZZ	Z10281.D	10/12/12	10:37	01:52	(unrelated sample)
ZZZZZZ	Z10282.D	10/12/12	10:58	02:13	(unrelated sample)
F97697-1	Z10284.D	10/12/12	11:39	02:54	(used for QC only; not part of job F97561)
F97697-1MS	Z10285.D	10/12/12	12:00	03:15	Matrix Spike
F97697-1MSD	Z10286.D	10/12/12	12:20	03:35	Matrix Spike Duplicate
ZZZZZZ	Z10287.D	10/12/12	12:44	03:59	(unrelated sample)
ZZZZZZ	Z10288.D	10/12/12	13:04	04:19	(unrelated sample)
ZZZZZZ	Z10290.D	10/12/12	13:45	05:00	(unrelated sample)
ZZZZZZ	Z10291.D	10/12/12	14:06	05:21	(unrelated sample)
F97561-1	Z10292.D	10/12/12	14:27	05:42	TRIP BLANK
F97561-2	Z10293.D	10/12/12	14:47	06:02	MW-34A (100212)
ZZZZZZ	Z10294.D	10/12/12	15:08	06:23	(unrelated sample)
ZZZZZZ	Z10295.D	10/12/12	15:29	06:44	(unrelated sample)
ZZZZZZ	Z10296.D	10/12/12	15:50	07:05	(unrelated sample)
ZZZZZZ	Z10297.D	10/12/12	16:11	07:26	(unrelated sample)
ZZZZZZ	Z10298.D	10/12/12	16:31	07:46	(unrelated sample)
F97561-8	Z10299.D	10/12/12	16:52	08:07	TRIP BLANK
F97561-9	Z10300.D	10/12/12	17:13	08:28	MW-37C (100212)
F97561-10	Z10301.D	10/12/12	17:34	08:49	MW-37B (100212)

Instrument Performance Check (BFB)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ460-BFB	**Injection Date:**	10/12/12
Lab File ID:	Z10276.D	**Injection Time:**	08:45
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
F97561-11	Z10302.D	10/12/12	17:55	09:10	MW-37A (100212)
F97561-12	Z10303.D	10/12/12	18:15	09:30	MW-26A (100212)
F97561-2MS	Z10304.D	10/12/12	18:36	09:51	Matrix Spike
F97561-2MSD	Z10305.D	10/12/12	18:56	10:11	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ462-BFB	**Injection Date:**	10/13/12
Lab File ID:	Z10310.D	**Injection Time:**	10:08
Instrument ID:	GCMSZ		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	98744	22.9		Pass
75	30.0 - 60.0% of mass 95	208469	48.3		Pass
95	Base peak, 100% relative abundance	431253	100.0		Pass
96	5.0 - 9.0% of mass 95	30209	7.00		Pass
173	Less than 2.0% of mass 174	2671	0.62	(0.75) [a]	Pass
174	50.0 - 100.0% of mass 95	357696	82.9		Pass
175	5.0 - 9.0% of mass 174	24931	5.78	(6.97) [a]	Pass
176	95.0 - 101.0% of mass 174	347221	80.5	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	22779	5.28	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ462-CC455	Z10311.D	10/13/12	10:29	00:21	Continuing cal 4
VZ462-BS	Z10312.D	10/13/12	10:52	00:44	Blank Spike
VZ462-MB	Z10313.D	10/13/12	11:12	01:04	Method Blank
ZZZZZZ	Z10314.D	10/13/12	11:33	01:25	(unrelated sample)
F97561-12	Z10315.D	10/13/12	11:54	01:46	MW-26A (100212)
ZZZZZZ	Z10316.D	10/13/12	12:14	02:06	(unrelated sample)
ZZZZZZ	Z10317.D	10/13/12	12:35	02:27	(unrelated sample)
ZZZZZZ	Z10318.D	10/13/12	12:55	02:47	(unrelated sample)
ZZZZZZ	Z10319.D	10/13/12	13:16	03:08	(unrelated sample)
ZZZZZZ	Z10321.D	10/13/12	13:57	03:49	(unrelated sample)
F97645-2	Z10322.D	10/13/12	14:18	04:10	(used for QC only; not part of job F97561)
ZZZZZZ	Z10323.D	10/13/12	14:39	04:31	(unrelated sample)
ZZZZZZ	Z10324.D	10/13/12	14:59	04:51	(unrelated sample)
ZZZZZZ	Z10325.D	10/13/12	15:20	05:12	(unrelated sample)
ZZZZZZ	Z10326.D	10/13/12	15:41	05:33	(unrelated sample)
ZZZZZZ	Z10327.D	10/13/12	16:01	05:53	(unrelated sample)
ZZZZZZ	Z10328.D	10/13/12	16:22	06:14	(unrelated sample)
ZZZZZZ	Z10330.D	10/13/12	17:04	06:56	(unrelated sample)
ZZZZZZ	Z10331.D	10/13/12	17:24	07:16	(unrelated sample)
ZZZZZZ	Z10332.D	10/13/12	17:45	07:37	(unrelated sample)
ZZZZZZ	Z10333.D	10/13/12	18:06	07:58	(unrelated sample)
ZZZZZZ	Z10334.D	10/13/12	18:26	08:18	(unrelated sample)
F97645-2MS	Z10336.D	10/13/12	19:08	09:00	Matrix Spike
F97645-2MSD	Z10337.D	10/13/12	19:28	09:20	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VZ460-CC455	**Injection Date:**	10/12/12
Lab File ID:	Z10277.D	**Injection Time:**	09:06
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1071668	7.82	836261	10.92	476980	13.28	94823	5.32
Check Std [b]	942161	7.81	756710	10.92	457925	13.28	76630	5.32
Upper Limit [c]	1884322	8.31	1513420	11.42	915850	13.78	153260	5.82
Lower Limit [d]	471081	7.31	378355	10.42	228963	12.78	38315	4.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VZ460-BS	1040779	7.82	847938	10.92	499090	13.28	85211	5.32
VZ461-BS	1040779	7.82	847938	10.92	499090	13.28		
VZ460-MB	972371	7.81	746753	10.92	402559	13.28	76763	5.32
VZ461-MB	972371	7.81	746753	10.92	402559	13.28		
ZZZZZZ	955907	7.82	717654	10.92	384154	13.28		
ZZZZZZ	900345	7.81	681060	10.92	362720	13.28		
F97697-1	927783	7.81	703506	10.92	421262	13.28		
F97697-1MS	1207093	7.82	958483	10.92	581917	13.28		
F97697-1MSD	1483746	7.82	1165393	10.92	704839	13.28		
ZZZZZZ	1562654	7.82	1251748	10.92	794698	13.28	141136	5.32
ZZZZZZ	1652253	7.82	1312871	10.92	754460	13.28	126895	5.32
ZZZZZZ	1630919	7.82	1300989	10.92	732695	13.28	129396	5.32
ZZZZZZ	1566372	7.82	1222773	10.92	693292	13.28	119096	5.32
F97561-1	1518942	7.82	1190420	10.92	666644	13.28	115491	5.32
F97561-2	1526612	7.81	1190021	10.92	736974	13.28	108780	5.32
ZZZZZZ	1538827	7.82	1198815	10.92	676331	13.28	115965	5.31
ZZZZZZ	1483801	7.82	1178993	10.92	653503	13.28	114992	5.32
ZZZZZZ	1466380	7.82	1128091	10.92	638933	13.28	119379	5.31
ZZZZZZ	1414211	7.81	1083583	10.92	625447	13.28	110622	5.31
ZZZZZZ	1407811	7.82	1085457	10.92	684373	13.28	113514	5.32
F97561-8	1462766	7.82	1145687	10.92	639297	13.28	120482	5.32
F97561-9	1448734	7.81	1133954	10.92	717483	13.28	126219	5.32
F97561-10	1551693	7.81	1191160	10.92	701197	13.28	126568	5.31
F97561-11	1497299	7.82	1161443	10.92	650133	13.28	126986	5.32
F97561-12	1458600	7.82	1134950	10.92	732021	13.28	150178	5.32
F97561-2MS	1669821	7.81	1309524	10.92	813829	13.28	118489	5.32
F97561-2MSD	1723522	7.82	1362506	10.92	856973	13.29	135542	5.32

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

Volatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VZ460-CC455	**Injection Date:**	10/12/12
Lab File ID:	Z10277.D	**Injection Time:**	09:06
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Initial Cal is: VZ455-ICC455 Z10168.D 10/09/12 16:24
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VZ462-CC455	**Injection Date:**	10/13/12
Lab File ID:	Z10311.D	**Injection Time:**	10:29
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1071668	7.82	836261	10.92	476980	13.28	94823	5.32
Check Std [b]	1156683	7.81	874180	10.92	486415	13.28	112470	5.32
Upper Limit [c]	2313366	8.31	1748360	11.42	972830	13.78	224940	5.82
Lower Limit [d]	578342	7.31	437090	10.42	243208	12.78	56235	4.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VZ462-BS	1174449	7.82	881152	10.92	491706	13.28	112149	5.32
VZ462-MB	1132114	7.81	860537	10.92	461052	13.28	102339	5.32
ZZZZZZ	1113999	7.82	830147	10.92	439089	13.28	106022	5.31
F97561-12	1112726	7.81	826658	10.92	463564	13.28	103951	5.32
ZZZZZZ	1113090	7.82	831255	10.92	431295	13.28	86542	5.32
ZZZZZZ	1092183	7.82	824410	10.92	422413	13.28	85635	5.33
ZZZZZZ	1078887	7.81	803125	10.92	412370	13.28	82955	5.32
ZZZZZZ	1065651	7.82	819046	10.92	433117	13.28	79364	5.32
ZZZZZZ	1067100	7.81	781164	10.92	400006	13.28	83302	5.32
F97645-2	1015315	7.82	759218	10.92	387512	13.28	83621	5.32
ZZZZZZ	992449	7.82	735460	10.92	370321	13.28	82244	5.32
ZZZZZZ	968134	7.82	713825	10.92	353259	13.28	79892	5.32
ZZZZZZ	956586	7.82	716374	10.92	355018	13.28	82719	5.32
ZZZZZZ	917013	7.82	678848	10.92	338703	13.28	77936	5.32
ZZZZZZ	889107	7.81	655503	10.92	321183	13.28	75163	5.32
ZZZZZZ	858928	7.81	650046	10.92	311363	13.28	77117	5.32
ZZZZZZ	825738	7.81	614780	10.92	299869	13.28	71338	5.32
ZZZZZZ	809105	7.82	594144	10.92	293035	13.28	68009	5.31
ZZZZZZ	782411	7.82	579535	10.92	291716	13.28	67772	5.32
ZZZZZZ	768315	7.81	566093	10.92	283470	13.28	63296	5.32
ZZZZZZ	753091	7.82	556960	10.92	275557	13.28	63471	5.31
F97645-2MS	778863	7.82	618093	10.92	330043	13.28	69714	5.32
F97645-2MSD	846089	7.81	644568	10.92	353192	13.28	85122	5.32

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VZ455-ICC455 Z10168.D 10/09/12 16:24
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F97561-1	Z10292.D	103.0	100.0	98.0	100.0
F97561-2	Z10293.D	101.0	100.0	97.0	99.0
F97561-8	Z10299.D	101.0	100.0	98.0	101.0
F97561-9	Z10300.D	101.0	100.0	98.0	98.0
F97561-10	Z10301.D	100.0	98.0	98.0	99.0
F97561-11	Z10302.D	101.0	99.0	98.0	100.0
F97561-12	Z10315.D	99.0	101.0	100.0	107.0
F97561-12	Z10303.D	102.0	99.0	98.0	97.0
F97561-2MS	Z10304.D	101.0	96.0	98.0	98.0
F97561-2MSD	Z10305.D	102.0	97.0	98.0	98.0
F97645-2MS	Z10336.D	100.0	102.0	97.0	105.0
F97645-2MSD	Z10337.D	100.0	102.0	97.0	104.0
VZ460-BS	Z10278.D	104.0	107.0	97.0	100.0
VZ460-MB	Z10279.D	106.0	110.0	100.0	103.0
VZ462-BS	Z10312.D	99.0	101.0	101.0	107.0
VZ462-MB	Z10313.D	100.0	103.0	100.0	107.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	87-116%
S2 = 1,2-Dichloroethane-D4	76-127%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	84-120%

Initial Calibration Summary

Job Number: F97561 **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSVOA15

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Initial Calibration

Calibration Files
1 =Z10165.D 2 =Z10166.D 3 =Z10167.D 4 =Z10168.D
5 =Z10169.D 6 =Z10170.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.478	0.496	0.532	0.572	0.546	0.540	0.527	6.54
3)	P	Chloromethane	0.693	0.666	0.741	0.773	0.754	0.744	0.728	5.53
4)	C	Vinyl Chloride	0.457	0.458	0.523	0.560	0.551	0.550	0.516	9.16
5)		Bromomethane	0.273	0.255	0.274	0.277	0.259	0.249	0.265	4.39
6)		Chloroethane	0.239	0.219	0.241	0.240	0.225	0.212	0.229	5.31
7)		Trichlorofluorometh	0.672	0.637	0.704	0.745	0.732	0.736	0.704	6.01
8)		Ethyl Ether	0.376	0.367	0.438	0.445	0.444	0.436	0.418	8.64
9)		1,2-Dichlorotrifluo	0.528	0.515	0.622	0.613	0.614	0.580	0.579	8.11
10)		Freon 113	0.442	0.425	0.511	0.509	0.516	0.487	0.482	8.11
11)	C	1,1-Dichloroethene	0.589	0.563	0.715	0.727	0.751	0.714	0.677	11.70
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.75643 *A + -0.01844 *A^2								
12)		Acetone	0.137	0.112	0.120	0.122	0.120	0.115	0.121	7.19
13)		Iodomethane	0.749	0.682	0.860	0.892	0.902	0.891	0.829	11.05
14)		Carbon Disulfide	1.284	1.213	1.518	1.540	1.549	1.464	1.428	10.09
15)		Methyl acetate	0.320	0.314	0.355	0.364	0.361	0.353	0.345	6.30
16)		Methylene Chloride	1.672	0.932	0.845	0.832	0.809	0.789	0.980	34.99
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.86133 *A + -0.03663 *A^2								
17)		Methyl Tert Butyl E	0.991	1.047	1.211	1.252	1.250	1.238	1.165	9.90
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.24868 *A + -0.00418 *A^2								
18)		trans-1,2-Dichloroe	0.589	0.585	0.728	0.747	0.754	0.734	0.689	11.59
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.75821 *A + -0.01054 *A^2								
19)		Acrylonitrile	0.155	0.167	0.181	0.187	0.186	0.183	0.176	7.21
20)		Hexane	0.949	0.940	1.167	1.210	1.234	1.187	1.115	12.00
21)		Di-isopropyl ether	1.692	1.522	1.861	1.957	1.985	1.972	1.832	10.23
22)		Vinyl acetate	0.734	0.863	1.003	1.064	1.066	1.026	0.959	13.89
23)	P	1,1-Dichloroethane	0.755	0.752	0.897	0.901	0.908	0.881	0.849	8.77
24)		ETBE	1.207	1.283	1.623	1.711	1.733	1.726	1.547	15.41
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.72326 *A								
25)		2-Butanone	0.150	0.170	0.207	0.214	0.212	0.207	0.193	13.77
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.21615 *A + -0.00083 *A^2								
26)		2,2-Dichloropropane	0.522	0.483	0.605	0.618	0.633	0.609	0.578	10.47
27)		cis-1,2-Dichloroeth	0.361	0.373	0.456	0.475	0.480	0.469	0.436	12.39
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								

```
              Response Ratio = 0.00000 + 0.47879 *A + -0.00395 *A^2

28)     Bromochloromethane  0.227 0.245 0.277 0.286 0.287 0.277 0.267   9.26
29)     Tetrahydrofuran     0.170 0.121 0.135 0.139 0.140 0.137 0.140  11.52
30) C   Chloroform          0.815 0.752 0.864 0.876 0.870 0.844 0.837   5.62
31) S   Dibromofluoromethan 0.312 0.355 0.381 0.312 0.389 0.404 0.359  11.09
            ---- Linear regression ----  Coefficient =  0.9992
              Response Ratio = -0.18524 + 0.49466 *A

32)     1,1,1-Trichloroetha 0.588 0.586 0.738 0.749 0.773 0.750 0.697  12.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.76428 *A + -0.00513 *A^2

33)     Cyclohexane         0.684 0.714 0.943 0.985 1.033 0.985 0.891  17.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 1.01299 *A + -0.00922 *A^2

34)     Carbon Tetrachlorid 0.548 0.558 0.684 0.722 0.744 0.713 0.662  13.07
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.73857 *A + -0.00989 *A^2

35)     1,1-Dichloropropene 0.424 0.437 0.562 0.581 0.596 0.569 0.528  14.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.59910 *A + -0.01295 *A^2

36) S   1,2-Dichloroethane- 0.372 0.419 0.447 0.362 0.457 0.464 0.420  10.45
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.19882 + 0.56600 *A

37)     TAME                0.854 0.874 1.153 1.216 1.230 1.213 1.090  16.24
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.21645 *A

38)     Benzene             1.370 1.314 1.590 1.621 1.621 1.549 1.511   8.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.68100 *A + -0.06210 *A^2

39)     1,2-Dichloroethane  0.692 0.638 0.736 0.737 0.735 0.718 0.709   5.53
40)     Trichloroethene     0.421 0.380 0.465 0.463 0.467 0.445 0.440   7.77
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.48372 *A + -0.01810 *A^2

41)     Methylcyclohexane   0.539 0.575 0.743 0.765 0.775 0.725 0.687  15.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.80634 *A + -0.03759 *A^2

42) C   1,2-Dichloropropane 0.417 0.406 0.492 0.503 0.513 0.500 0.472  10.01
43)     Dibromomethane      0.292 0.278 0.314 0.320 0.321 0.314 0.307   5.68
44)     Bromodichloromethan 0.505 0.515 0.619 0.636 0.647 0.633 0.592  10.90
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.64107 *A + -0.00248 *A^2

45)     2-Chloroethyl vinyl 0.218 0.245 0.322 0.344 0.343 0.332 0.301  18.30
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.33584 *A

46)     2-Nitropropane      0.097 0.089 0.112 0.118 0.117 0.112 0.108  11.24
47)     cis-1,3-Dichloropro 0.547 0.581 0.718 0.768 0.774 0.759 0.691  14.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.76564 *A + -0.00179 *A^2
```

```
48)     4-Methyl-2-pentanon 0.377 0.399 0.493 0.515 0.510 0.487 0.464  12.86

49) I   Chlorobenzene-d5      ----------------ISTD--------------------
50) S   Toluene-d8          1.269 1.444 1.514 1.238 1.568 1.616 1.442  10.89
            ---- Linear regression ----  Coefficient =  0.9997
              Response Ratio = -0.72539 + 1.97258 *A

51) C   Toluene             2.000 1.919 2.255 2.275 2.329 2.260 2.173   7.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 2.32939 *A + -0.02916 *A^2

52)     trans-1,3-Dichlorop 0.674 0.687 0.834 0.875 0.888 0.876 0.806  12.28
53)     1,1,2-Trichloroetha 0.440 0.401 0.445 0.449 0.446 0.432 0.435   4.08
54)     Tetrachloroethene   0.575 0.556 0.670 0.680 0.708 0.677 0.644   9.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.70391 *A + -0.01082 *A^2

55)     2-hexanone          0.283 0.332 0.421 0.443 0.449 0.439 0.394  17.73
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.44191 *A

56)     1,3-Dichloropropane 0.778 0.731 0.856 0.874 0.886 0.867 0.832   7.55
57)     Dibromochloromethan 0.576 0.546 0.668 0.696 0.719 0.719 0.654  11.47
58)     1,2-Dibromoethane   0.449 0.465 0.535 0.554 0.568 0.561 0.522   9.94
59)     1-Chlorohexane      0.506 0.563 0.787 0.824 0.878 0.829 0.731  21.38
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.84143 *A

60) P   Chlorobenzene       1.393 1.335 1.529 1.559 1.567 1.502 1.481   6.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.61293 *A + -0.05155 *A^2

61) C   Ethylbenzene        2.109 2.116 2.602 2.631 2.686 2.588 2.455  10.90
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 2.70884 *A + -0.05325 *A^2

62)     1,1,1,2-Tetrachloro 0.530 0.537 0.642 0.653 0.662 0.654 0.613  10.09
63)     m,p-Xylene          1.441 1.524 1.926 1.996 2.049 1.976 1.819  14.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 2.03741 *A + -0.01195 *A^2

64)     o-Xylene            1.328 1.387 1.835 1.966 2.051 1.991 1.760  18.19
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.97181 *A + 0.01781 *A^2

65)     Styrene             0.909 1.025 1.481 1.606 1.667 1.655 1.391  24.20
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.56624 *A + 0.04926 *A^2

66) P   Bromoform           0.389 0.396 0.498 0.520 0.546 0.545 0.482  14.90

67) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
68)     Isopropylbenzene    2.861 2.978 4.086 4.308 4.395 4.238 3.811  18.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 4.37375 *A + -0.05326 *A^2

69)     Cyclohexanone       0.015 0.022 0.024 0.025 0.024 0.024 0.022  17.84
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.02425 *A
```

Initial Calibration Summary

Job Number: F97561 **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
70) S   4-Bromofluorobenzen 0.865 0.998 1.051 0.840 1.109 1.167 1.005  13.04
            ---- Linear regression ----  Coefficient =  0.9979
              Response Ratio = -0.62142 + 1.45931 *A

71) P   1,1,2,2-Tetrachloro 1.334 1.181 1.279 1.266 1.214 1.161 1.239   5.29
72)     trans-1,4-Dichloro- 0.265 0.298 0.367 0.400 0.412 0.427 0.362  18.26
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.37320 *A + 0.02701 *A^2

73)     n-Propylbenzene     4.020 4.010 5.185 5.270 5.373 5.185 4.840  13.28
74)     Bromobenzene        1.172 1.178 1.391 1.376 1.377 1.373 1.311   8.06
75)     1,2,3-Trichloroprop 0.315 0.327 0.359 0.359 0.352 0.343 0.343   5.27
76)     1,3,5-Trimethylbenz 2.588 2.915 3.848 4.048 4.009 3.834 3.540  17.67
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 4.15284 *A + -0.14899 *A^2

77)     2-Chlorotoluene     2.862 2.914 3.692 3.733 3.697 3.575 3.412  12.01
78)     4-Chlorotoluene     2.327 2.545 3.188 3.295 3.354 3.327 3.006  14.99
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 3.32738 *A

79)     tert-Butylbenzene   1.457 1.568 2.124 2.210 2.225 2.121 1.951  17.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 2.27883 *A + -0.07200 *A^2

80)     1,2,4-Trimethylbenz 2.500 2.957 4.014 4.164 4.140 3.974 3.625  19.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 4.26997 *A + -0.13802 *A^2

81)     sec-Butylbenzene    3.051 3.603 4.871 5.073 5.050 4.749 4.399  19.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 5.29917 *A + -0.25809 *A^2

82)     4-Isopropyltoluene  2.353 2.853 4.092 4.254 4.274 4.066 3.648  22.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 4.39195 *A + -0.14908 *A^2

83)     1,3-Dichlorobenzene 2.118 2.027 2.432 2.479 2.496 2.421 2.329   8.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2.53311 *A + -0.05092 *A^2

84)     1,4-Dichlorobenzene 2.431 2.407 2.775 2.766 2.748 2.690 2.636   6.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 2.82295 *A + -0.06440 *A^2

85)     Benzyl Chloride     0.365 0.394 0.497 0.527 0.523 0.501 0.468  14.93
86)     n-Butylbenzene      0.764 0.761 1.066 1.141 1.139 1.074 0.991  18.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.17996 *A + -0.04885 *A^2

87)     1,2-Dichlorobenzene 2.057 2.065 2.401 2.453 2.404 2.272 2.275   7.76
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 2.57158 *A + -0.14459 *A^2

88)     1,2-Dibromo-3-Chlor 0.198 0.159 0.181 0.180 0.155 0.126 0.167  15.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.21227 *A + -0.04263 *A^2

89)     1,2,4-Trichlorobenz 1.363 1.401 1.747 1.750 1.423 1.112 1.466  16.76
```

Initial Calibration Summary

Job Number: F97561 **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 2.09156 *A + -0.48666 *A^2

90)     Hexachlorobutadiene 0.809 0.829 1.003 1.011 0.910 0.767 0.888  11.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.16208 *A + -0.19455 *A^2

91)     Naphthalene         2.003 2.137 2.826 2.875 2.177 1.657 2.279  21.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
              Response Ratio = 0.00000 + 3.44434 *A + -0.89294 *A^2

92)     1,2,3-Trichlorobenz 1.218 1.208 1.472 1.398 1.058 0.797 1.192  20.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 1.71380 *A + -0.45912 *A^2


93) I   Tert Butyl alcohol-d1 ----------------ISTD--------------------
94)     Acrolein            3.035 2.699 2.894 3.052 3.237 3.270 3.031   7.06
95)     Tert-Butyl Alcohol  1.905 2.015 1.945 2.006 1.962 1.915 1.958   2.34
96)     Tert amyl alcohol   1.400 1.350 1.460 1.590 1.574 1.565 1.490   6.81
97)     1,4-Dioxane         0.037 0.096 0.123 0.129 0.135 0.147 0.111  35.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.11301 *A + 0.00419 *A^2

------------------------------------------------------------------------------
(#) = Out of Range

          8260.M            Wed Oct 10 09:23:01 2012
```

Initial Calibration Verification

Job Number: F97561 **Sample:** VZ455-ICV455
Account: CSXT CSX Transportation **Lab FileID:** Z10171.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100912\Z10171.D Vial: 7
Acq On : 9 Oct 2012 5:26 pm Operator: KarenW
Sample : ICV455-4 Inst : MSVOA15
Misc : MS22299,VZ455,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	123	0.00	7.82
2		Dichlorodifluoromethane	0.527	0.532	-0.9	115	0.00	2.63
3	P	Chloromethane	0.728	0.744	-2.2	118	0.00	2.85
4	C	Vinyl Chloride	0.516	0.559	-8.3	123	-0.01	2.99
5		Bromomethane	0.265	0.273	-3.0	121	-0.01	3.43
6		Chloroethane	0.229	0.235	-2.6	121	-0.01	3.58
7		Trichlorofluoromethane	0.704	0.740	-5.1	122	-0.01	3.80
8		Ethyl Ether	0.418	0.411	1.7	114	-0.01	4.11
9		1,2-Dichlorotrifluoroetha	0.579	0.576	0.5	116	-0.01	4.35
10		Freon 113	0.482	0.469	2.7	113	0.00	4.46
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	42.413	-6.0	133	0.00	4.40
			AvgRF	CCRF	%Dev			
12		Acetone	0.121	0.127	-5.0	129	0.00	5.10
13		Iodomethane	0.829	0.834	-0.6	115	-0.01	4.59
14		Carbon Disulfide	1.428	1.314	8.0	105	-0.01	4.47
15		Methyl acetate	0.345	0.337	2.3	114	0.00	5.22
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	39.919	0.2	123	0.00	5.07
17		Methyl Tert Butyl Ether	40.000	37.337	6.7	114	0.00	5.35
18		trans-1,2-Dichloroethene	40.000	40.347	-0.9	125	0.00	5.25
			AvgRF	CCRF	%Dev			
19		Acrylonitrile	0.176	0.172	2.3	113	0.00	5.97
20		Hexane	1.115	1.127	-1.1	115	-0.01	5.32
21		Di-isopropyl ether	1.832	1.830	0.1	115	0.00	5.74
22		Vinyl acetate	0.959	0.874	8.9	101	0.00	6.16
23	P	1,1-Dichloroethane	0.849	0.914	-7.7	125	0.00	5.94
			Amount	Calc.	%Drift			
24		ETBE	40.000	36.303	9.2	113	0.00	6.15
25		2-Butanone	200.000	203.196	-1.6	124	0.00	7.08
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.578	0.621	-7.4	124	0.00	6.65
			Amount	Calc.	%Drift			
27		cis-1,2-Dichloroethene	40.000	41.134	-2.8	127	0.00	6.52

Initial Calibration Verification

Job Number: F97561 **Sample:** VZ455-ICV455
Account: CSXT CSX Transportation **Lab FileID:** Z10171.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
28		Bromochloromethane	0.267	0.267	0.0	115	0.00	6.74
29		Tetrahydrofuran	0.140	0.126	10.0	112	0.00	6.97
30	C	Chloroform	0.837	0.868	-3.7	122	0.00	6.78
			Amount	Calc.	%Drift			
31	S	Dibromofluoromethane	50.000	50.122	-0.2	123	0.00	6.98
32		1,1,1-Trichloroethane	40.000	40.191	-0.5	126	0.00	7.04
33		Cyclohexane	40.000	37.546	6.1	118	0.00	6.77
34		Carbon Tetrachloride	40.000	40.780	-2.0	127	0.00	6.97
35		1,1-Dichloropropene	40.000	41.071	-2.7	128	0.00	7.16
36	S	1,2-Dichloroethane-d4	50.000	49.557	0.9	123	0.00	7.54
37		TAME	40.000	38.022	4.9	117	0.00	7.49
38		Benzene	40.000	40.638	-1.6	126	0.00	7.41
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.709	0.748	-5.5	125	0.00	7.61
			Amount	Calc.	%Drift			
40		Trichloroethene	40.000	40.575	-1.4	127	0.00	7.99
41		Methylcyclohexane	40.000	36.931	7.7	116	0.00	8.01
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.472	0.524	-11.0	128	0.00	8.52
43		Dibromomethane	0.307	0.319	-3.9	123	0.00	8.42
			Amount	Calc.	%Drift			
44		Bromodichloromethane	40.000	40.805	-2.0	126	0.00	8.56
45		2-Chloroethyl vinyl ether	200.000	184.731	7.6	111	0.00	9.08
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.108	0.105	2.8	110	0.00	9.64
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	38.577	3.6	118	0.00	9.18
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.464	0.477	-2.8	114	0.00	9.75
49	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00	10.92
			Amount	Calc.	%Drift			
50	S	Toluene-d8	50.000	49.902	0.2	124	0.00	9.37
51	C	Toluene	40.000	41.036	-2.6	128	0.00	9.42
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.806	0.900	-11.7	127	0.00	9.81
53		1,1,2-Trichloroethane	0.435	0.449	-3.2	123	0.00	9.98
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	41.504	-3.8	130	0.00	9.82
55		2-hexanone	200.000	184.581	7.7	113	0.00	10.57
			AvgRF	CCRF	%Dev			
56		1,3-Dichloropropane	0.832	0.877	-5.4	123	0.00	10.26
57		Dibromochloromethane	0.654	0.728	-11.3	129	0.00	10.17
58		1,2-Dibromoethane	0.522	0.574	-10.0	127	0.00	10.44
			Amount	Calc.	%Drift			
59		1-Chlorohexane	40.000	37.288	6.8	117	0.00	10.87

Initial Calibration Verification

Job Number: F97561 **Sample:** VZ455-ICV455
Account: CSXT CSX Transportation **Lab FileID:** Z10171.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

60	P	Chlorobenzene	40.000	43.187	-8.0	134	0.00	10.94
61	C	Ethylbenzene	40.000	40.656	-1.6	127	0.00	10.94
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.613	0.679	-10.8	128	0.00	10.99
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	84.355	-5.4	131	0.00	11.08
64		o-Xylene	40.000	43.530	-8.8	135	0.00	11.52
65		Styrene	40.000	40.859	-2.1	126	0.00	11.56
			AvgRF	CCRF	%Dev			
66	P	Bromoform	0.482	0.526	-9.1	124	0.00	11.63
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	13.28
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	44.385	-11.0	135	0.00	11.82
69		Cyclohexanone	200.000	216.654	-8.3	126	0.00	12.54
70	S	4-Bromofluorobenzene	50.000	50.385	-0.8	123	0.00	12.13
			AvgRF	CCRF	%Dev			
71	P	1,1,2,2-Tetrachloroethane	1.239	1.223	1.3	117	0.00	12.30
			Amount	Calc.	%Drift			
72		trans-1,4-Dichloro-2-Bute	40.000	37.101	7.2	111	0.00	12.48
			AvgRF	CCRF	%Dev			
73		n-Propylbenzene	4.840	5.801	-19.9	134	0.00	12.24
74		Bromobenzene	1.311	1.457	-11.1	129	0.00	12.27
75		1,2,3-Trichloropropane	0.343	0.363	-5.8	123	0.00	12.47
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	40.520	-1.3	123	0.00	12.42
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	3.412	3.971	-16.4	129	0.00	12.43
			Amount	Calc.	%Drift			
78		4-Chlorotoluene	40.000	44.769	-11.9	137	0.00	12.60
79		tert-Butylbenzene	40.000	43.753	-9.4	133	0.00	12.77
80		1,2,4-Trimethylbenzene	40.000	40.110	-0.3	122	0.00	12.84
81		sec-Butylbenzene	40.000	43.574	-8.9	132	0.00	12.95
82		4-Isopropyltoluene	40.000	42.539	-6.3	130	0.00	13.09
83		1,3-Dichlorobenzene	40.000	43.445	-8.6	132	0.00	13.22
84		1,4-Dichlorobenzene	40.000	41.246	-3.1	125	0.00	13.30
			AvgRF	CCRF	%Dev			
85		Benzyl Chloride	0.468	0.452	3.4	104	0.00	13.53
			Amount	Calc.	%Drift			
86		n-Butylbenzene	40.000	41.151	-2.9	125	0.00	13.52
87		1,2-Dichlorobenzene	40.000	43.944	-9.9	133	0.00	13.73
88		1,2-Dibromo-3-Chloropropa	40.000	40.382	-1.0	121	0.00	14.46
89		1,2,4-Trichlorobenzene	40.000	44.589	-11.5	128	0.00	15.05
90		Hexachlorobutadiene	40.000	45.291	-13.2	134	0.00	15.00
91		Naphthalene	40.000	45.689	-14.2	127	0.00	15.34
92		1,2,3-Trichlorobenzene	40.000	46.248	-15.6	130	0.00	15.51

Initial Calibration Verification

Job Number: F97561 **Sample:** VZ455-ICV455
Account: CSXT CSX Transportation **Lab FileID:** Z10171.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	125	0.00	5.32
94		Acrolein	3.031	2.658	12.3	109	0.00	4.77
95		Tert-Butyl Alcohol	1.958	2.023	-3.3	126	0.00	5.39
96		Tert amyl alcohol	1.490	1.574	-5.6	124	0.00	7.63

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	1084.576	-35.6#	173	0.00	8.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z10168.D 8260.M Wed Oct 10 09:22:49 2012

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101212\Z10277.D Vial: 1
Acq On : 12 Oct 2012 9:06 am Operator: KarenW
Sample : CC455-4 Inst : MSVOA15
Misc : MS22352,VZ460,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00	7.81
2		Dichlorodifluoromethane	0.527	0.558	-5.9	86	-0.01	2.62
3	P	Chloromethane	0.728	0.747	-2.6	85	-0.01	2.84
4	C	Vinyl Chloride	0.516	0.533	-3.3	84	-0.01	2.99
5		Bromomethane	0.265	0.280	-5.7	89	-0.01	3.43
6		Chloroethane	0.229	0.251	-9.6	92	-0.01	3.58
7		Trichlorofluoromethane	0.704	0.814	-15.6	96	-0.01	3.80
8		Ethyl Ether	0.418	0.430	-2.9	85	-0.02	4.11
9		1,2-Dichlorotrifluoroetha	0.579	0.640	-10.5	92	-0.01	4.35
10		Freon 113	0.482	0.539	-11.8	93	0.00	4.46
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	41.333	-3.3	93	-0.01	4.39
			AvgRF	CCRF	%Dev			
12		Acetone	0.121	0.127	-5.0	92	0.00	5.09
13		Iodomethane	0.829	0.864	-4.2	85	-0.01	4.59
14		Carbon Disulfide	1.428	1.523	-6.7	87	-0.01	4.47
15		Methyl acetate	0.345	0.346	-0.3	84	-0.01	5.21
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	40.823	-2.1	90	-0.01	5.06
17		Methyl Tert Butyl Ether	40.000	38.511	3.7	84	-0.01	5.35
18		trans-1,2-Dichloroethene	40.000	40.964	-2.4	90	0.00	5.25
			AvgRF	CCRF	%Dev			
19		Acrylonitrile	0.176	0.175	0.6	82	-0.01	5.97
20		Hexane	1.115	1.228	-10.1	89	-0.01	5.32
21		Di-isopropyl ether	1.832	1.956	-6.8	88	0.00	5.74
22		Vinyl acetate	0.959	1.054	-9.9	87	-0.01	6.15
23	P	1,1-Dichloroethane	0.849	0.914	-7.7	89	-0.01	5.93
			Amount	Calc.	%Drift			
24		ETBE	40.000	39.606	1.0	88	0.00	6.15
25		2-Butanone	200.000	191.731	4.1	84	-0.01	7.08
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.578	0.707	-22.3#	101	0.00	6.65
			Amount	Calc.	%Drift			
27		cis-1,2-Dichloroethene	40.000	38.953	2.6	86	0.00	6.52

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
28		Bromochloromethane	0.267	0.275	-3.0	84	-0.01	6.73
29		Tetrahydrofuran	0.140	0.123	12.1	78	0.00	6.96
30	C	Chloroform	0.837	0.923	-10.3	93	0.00	6.78
			Amount	**Calc.**	**%Drift**			
31	S	Dibromofluoromethane	50.000	52.380	-4.8	94	-0.01	6.97
32		1,1,1-Trichloroethane	40.000	44.330	-10.8	99	0.00	7.04
33		Cyclohexane	40.000	40.245	-0.6	90	0.00	6.77
34		Carbon Tetrachloride	40.000	44.943	-12.4	100	0.00	6.97
35		1,1-Dichloropropene	40.000	40.560	-1.4	90	-0.01	7.15
36	S	1,2-Dichloroethane-d4	50.000	52.823	-5.6	97	-0.01	7.53
37		TAME	40.000	37.703	5.7	83	0.00	7.48
38		Benzene	40.000	38.674	3.3	86	-0.01	7.41
			AvgRF	**CCRF**	**%Dev**			
39		1,2-Dichloroethane	0.709	0.786	-10.9	94	0.00	7.61
			Amount	**Calc.**	**%Drift**			
40		Trichloroethene	40.000	39.761	0.6	89	-0.01	7.99
41		Methylcyclohexane	40.000	39.950	0.1	89	0.00	8.00
			AvgRF	**CCRF**	**%Dev**			
42	C	1,2-Dichloropropane	0.472	0.472	0.0	82	-0.01	8.51
43		Dibromomethane	0.307	0.314	-2.3	86	0.00	8.42
			Amount	**Calc.**	**%Drift**			
44		Bromodichloromethane	40.000	40.733	-1.8	90	0.00	8.55
45		2-Chloroethyl vinyl ether	200.000	183.642	8.2	79	0.00	9.08
			AvgRF	**CCRF**	**%Dev**			
46		2-Nitropropane	0.108	0.117	-8.3	87	0.00	9.63
			Amount	**Calc.**	**%Drift**			
47		cis-1,3-Dichloropropene	40.000	39.108	2.2	86	0.00	9.17
			AvgRF	**CCRF**	**%Dev**			
48		4-Methyl-2-pentanone	0.464	0.480	-3.4	82	0.00	9.75
49	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	10.92
			Amount	**Calc.**	**%Drift**			
50	S	Toluene-d8	50.000	49.130	1.7	89	0.00	9.37
51	C	Toluene	40.000	38.058	4.9	87	0.00	9.42
			AvgRF	**CCRF**	**%Dev**			
52		trans-1,3-Dichloropropene	0.806	0.851	-5.6	88	0.00	9.81
53		1,1,2-Trichloroethane	0.435	0.414	4.8	83	0.00	9.97
			Amount	**Calc.**	**%Drift**			
54		Tetrachloroethene	40.000	38.944	2.6	90	0.00	9.82
55		2-hexanone	200.000	179.878	10.1	81	0.00	10.57
			AvgRF	**CCRF**	**%Dev**			
56		1,3-Dichloropropane	0.832	0.805	3.2	83	0.00	10.26
57		Dibromochloromethane	0.654	0.669	-2.3	87	0.00	10.17
58		1,2-Dibromoethane	0.522	0.511	2.1	83	0.00	10.44
			Amount	**Calc.**	**%Drift**			
59		1-Chlorohexane	40.000	38.104	4.7	88	0.00	10.87

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

60	P	Chlorobenzene	40.000	38.597	3.5	88	0.00	10.94
61	C	Ethylbenzene	40.000	39.873	0.3	91	0.00	10.94
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.613	0.657	-7.2	91	0.00	10.99
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	80.098	-0.1	92	0.00	11.08
64		o-Xylene	40.000	39.283	1.8	90	0.00	11.52
65		Styrene	40.000	39.466	1.3	89	0.00	11.56
			AvgRF	CCRF	%Dev			
66	P	Bromoform	0.482	0.498	-3.3	87	0.00	11.63
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	13.28
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	37.505	6.2	91	0.00	11.82
69		Cyclohexanone	200.000	190.948	4.5	88	0.00	12.54
70	S	4-Bromofluorobenzene	50.000	49.271	1.5	93	0.00	12.13
			AvgRF	CCRF	%Dev			
71	P	1,1,2,2-Tetrachloroethane	1.239	1.110	10.4	84	0.00	12.30
			Amount	Calc.	%Drift			
72		trans-1,4-Dichloro-2-Bute	40.000	40.937	-2.3	97	0.00	12.48
			AvgRF	CCRF	%Dev			
73		n-Propylbenzene	4.840	5.133	-6.1	94	0.00	12.24
74		Bromobenzene	1.311	1.297	1.1	90	0.00	12.27
75		1,2,3-Trichloropropane	0.343	0.321	6.4	86	0.00	12.47
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	38.119	4.7	91	0.00	12.42
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	3.412	3.640	-6.7	94	0.00	12.43
			Amount	Calc.	%Drift			
78		4-Chlorotoluene	40.000	39.244	1.9	95	0.00	12.60
79		tert-Butylbenzene	40.000	39.224	1.9	95	0.00	12.77
80		1,2,4-Trimethylbenzene	40.000	39.229	1.9	94	0.00	12.84
81		sec-Butylbenzene	40.000	38.619	3.5	93	0.00	12.95
82		4-Isopropyltoluene	40.000	38.830	2.9	94	0.00	13.08
83		1,3-Dichlorobenzene	40.000	38.841	2.9	94	0.00	13.22
84		1,4-Dichlorobenzene	40.000	38.478	3.8	93	0.00	13.30
			AvgRF	CCRF	%Dev			
85		Benzyl Chloride	0.468	0.500	-6.8	91	0.00	13.53
			Amount	Calc.	%Drift			
86		n-Butylbenzene	40.000	38.794	3.0	93	0.00	13.52
87		1,2-Dichlorobenzene	40.000	38.321	4.2	92	0.00	13.72
88		1,2-Dibromo-3-Chloropropa	40.000	32.625	18.4	80	0.00	14.46
89		1,2,4-Trichlorobenzene	40.000	33.237	16.9	81	0.00	15.05
90		Hexachlorobutadiene	40.000	36.664	8.3	89	0.00	15.00
91		Naphthalene	40.000	30.682	23.3#	74	0.00	15.34
92		1,2,3-Trichlorobenzene	40.000	30.212	24.5#	74	0.00	15.51

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	81	0.00	5.32
94		Acrolein	3.031	3.221	-6.3	85	-0.01	4.77
95		Tert-Butyl Alcohol	1.958	2.029	-3.6	82	0.00	5.39
96		Tert amyl alcohol	1.490	1.448	2.8	74	0.00	7.63

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	932.715	-16.6	94	-0.01	8.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z10168.D 8260.M Sat Oct 13 09:54:13 2012

6.7.3

6

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ462-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10311.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101312\Z10311.D Vial: 1
Acq On : 13 Oct 2012 10:29 am Operator: KarenW
Sample : CC455-4 Inst : MSVOA15
Misc : MS22369,VZ462,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00	7.81
2		Dichlorodifluoromethane	0.527	0.574	-8.9	108	0.00	2.63
3	P	Chloromethane	0.728	0.723	0.7	101	0.00	2.85
4	C	Vinyl Chloride	0.516	0.503	2.5	97	0.00	3.00
5		Bromomethane	0.265	0.266	-0.4	104	0.00	3.43
6		Chloroethane	0.229	0.226	1.3	102	0.00	3.60
7		Trichlorofluoromethane	0.704	0.789	-12.1	114	0.00	3.82
8		Ethyl Ether	0.418	0.421	-0.7	102	0.00	4.12
9		1,2-Dichlorotrifluoroetha	0.579	0.603	-4.1	106	0.00	4.36
10		Freon 113	0.482	0.522	-8.3	111	0.00	4.46
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	39.285	1.8	108	0.00	4.41
			AvgRF	CCRF	%Dev			
12		Acetone	0.121	0.136	-12.4	120	0.00	5.09
13		Iodomethane	0.829	0.893	-7.7	108	0.00	4.60
14		Carbon Disulfide	1.428	1.455	-1.9	102	0.00	4.47
15		Methyl acetate	0.345	0.342	0.9	101	0.00	5.22
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	39.158	2.1	106	0.00	5.07
17		Methyl Tert Butyl Ether	40.000	40.429	-1.1	109	0.00	5.35
18		trans-1,2-Dichloroethene	40.000	38.663	3.3	105	0.00	5.25
			AvgRF	CCRF	%Dev			
19		Acrylonitrile	0.176	0.167	5.1	96	0.00	5.97
20		Hexane	1.115	1.162	-4.2	104	-0.01	5.32
21		Di-isopropyl ether	1.832	1.976	-7.9	109	0.00	5.75
22		Vinyl acetate	0.959	0.967	-0.8	98	0.00	6.16
23	P	1,1-Dichloroethane	0.849	0.859	-1.2	103	0.00	5.94
			Amount	Calc.	%Drift			
24		ETBE	40.000	39.414	1.5	107	0.00	6.15
25		2-Butanone	200.000	197.552	1.2	106	0.00	7.08
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.578	0.700	-21.1#	122	0.00	6.65
			Amount	Calc.	%Drift			
27		cis-1,2-Dichloroethene	40.000	40.519	-1.3	109	0.00	6.52

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ462-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10311.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
28		Bromochloromethane	0.267	0.280	-4.9	106	0.00	6.74
29		Tetrahydrofuran	0.140	0.132	5.7	103	0.00	6.96
30	C	Chloroform	0.837	0.896	-7.0	110	0.00	6.78
			Amount	Calc.	%Drift			
31	S	Dibromofluoromethane	50.000	49.935	0.1	107	0.00	6.98
32		1,1,1-Trichloroethane	40.000	42.456	-6.1	116	0.00	7.04
33		Cyclohexane	40.000	38.074	4.8	105	0.00	6.77
34		Carbon Tetrachloride	40.000	41.087	-2.7	112	0.00	6.98
35		1,1-Dichloropropene	40.000	39.612	1.0	108	0.00	7.16
36	S	1,2-Dichloroethane-d4	50.000	50.847	-1.7	112	0.00	7.54
37		TAME	40.000	39.864	0.3	108	0.00	7.49
38		Benzene	40.000	38.509	3.7	105	0.00	7.41
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.709	0.738	-4.1	108	0.00	7.61
			Amount	Calc.	%Drift			
40		Trichloroethene	40.000	39.648	0.9	109	0.00	7.99
41		Methylcyclohexane	40.000	39.898	0.3	109	0.00	8.01
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.472	0.466	1.3	100	0.00	8.52
43		Dibromomethane	0.307	0.311	-1.3	105	0.00	8.42
			Amount	Calc.	%Drift			
44		Bromodichloromethane	40.000	40.878	-2.2	111	0.00	8.56
45		2-Chloroethyl vinyl ether	200.000	177.457	11.3	93	0.00	9.08
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.108	0.120	-11.1	109	0.00	9.64
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	39.354	1.6	106	0.00	9.17
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.464	0.480	-3.4	101	0.00	9.75
49	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.92
			Amount	Calc.	%Drift			
50	S	Toluene-d8	50.000	50.373	-0.7	107	0.00	9.37
51	C	Toluene	40.000	39.736	0.7	105	0.00	9.42
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.806	0.887	-10.0	106	0.00	9.81
53		1,1,2-Trichloroethane	0.435	0.438	-0.7	102	0.00	9.97
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	38.640	3.4	103	0.00	9.82
55		2-hexanone	200.000	202.275	-1.1	105	0.00	10.57
			AvgRF	CCRF	%Dev			
56		1,3-Dichloropropane	0.832	0.867	-4.2	104	0.00	10.26
57		Dibromochloromethane	0.654	0.700	-7.0	105	0.00	10.17
58		1,2-Dibromoethane	0.522	0.564	-8.0	106	0.00	10.44
			Amount	Calc.	%Drift			
59		1-Chlorohexane	40.000	40.851	-2.1	109	0.00	10.87

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ462-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10311.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

60	P	Chlorobenzene	40.000	39.451	1.4	104	0.00	10.94
61	C	Ethylbenzene	40.000	40.220	-0.5	107	0.00	10.94
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.613	0.653	-6.5	105	0.00	10.99
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	82.422	-3.0	109	0.00	11.08
64		o-Xylene	40.000	42.113	-5.3	111	0.00	11.52
65		Styrene	40.000	41.342	-3.4	108	0.00	11.56
			AvgRF	CCRF	%Dev			
66	P	Bromoform	0.482	0.472	2.1	95	0.00	11.63
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	13.28
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	42.680	-6.7	109	0.00	11.82
69		Cyclohexanone	200.000	240.338	-20.2#	117	0.00	12.54
70	S	4-Bromofluorobenzene	50.000	53.441	-6.9	114	0.00	12.13
			AvgRF	CCRF	%Dev			
71	P	1,1,2,2-Tetrachloroethane	1.239	1.233	0.5	99	0.00	12.30
			Amount	Calc.	%Drift			
72		trans-1,4-Dichloro-2-Bute	40.000	42.527	-6.3	107	0.00	12.48
			AvgRF	CCRF	%Dev			
73		n-Propylbenzene	4.840	5.563	-14.9	108	0.00	12.24
74		Bromobenzene	1.311	1.345	-2.6	100	0.00	12.27
75		1,2,3-Trichloropropane	0.343	0.374	-9.0	106	0.00	12.47
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	42.807	-7.0	109	0.00	12.42
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	3.412	3.942	-15.5	108	0.00	12.43
			Amount	Calc.	%Drift			
78		4-Chlorotoluene	40.000	43.414	-8.5	112	0.00	12.60
79		tert-Butylbenzene	40.000	42.964	-7.4	110	0.00	12.77
80		1,2,4-Trimethylbenzene	40.000	42.971	-7.4	109	0.00	12.84
81		sec-Butylbenzene	40.000	41.665	-4.2	106	0.00	12.95
82		4-Isopropyltoluene	40.000	41.853	-4.6	107	0.00	13.08
83		1,3-Dichlorobenzene	40.000	39.445	1.4	101	0.00	13.22
84		1,4-Dichlorobenzene	40.000	39.301	1.7	100	0.00	13.30
			AvgRF	CCRF	%Dev			
85		Benzyl Chloride	0.468	0.556	-18.8	108	0.00	13.53
			Amount	Calc.	%Drift			
86		n-Butylbenzene	40.000	40.786	-2.0	104	0.00	13.52
87		1,2-Dichlorobenzene	40.000	39.298	1.8	100	0.00	13.72
88		1,2-Dibromo-3-Chloropropa	40.000	41.132	-2.8	103	0.00	14.46
89		1,2,4-Trichlorobenzene	40.000	36.214	9.5	92	0.00	15.05
90		Hexachlorobutadiene	40.000	34.417	14.0	89	0.00	15.00
91		Naphthalene	40.000	43.190	-8.0	102	0.00	15.34
92		1,2,3-Trichlorobenzene	40.000	31.774	20.6#	82	0.00	15.51

Continuing Calibration Summary

Job Number: F97561 **Sample:** VZ462-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10311.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	119	0.00	5.32
94		Acrolein	3.031	2.573	15.1	100	0.00	4.77
95		Tert-Butyl Alcohol	1.958	1.962	-0.2	116	0.00	5.40
96		Tert amyl alcohol	1.490	1.495	-0.3	112	0.00	7.63

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	1047.299	-30.9#	157	-0.01	8.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z10168.D 8260.M Mon Oct 15 08:39:26 2012

6.7.4

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MB	X025913.D	1	10/10/12	FS	10/09/12	OP43901	SX1251

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	14-62%
4165-62-2	Phenol-d5	37%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MB	T004529.D	1	10/11/12	FS	10/09/12	OP43901	ST230

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-62%
4165-62-2	Phenol-d5	35%	10-40%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	88%	39-121%

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W067991.D	1	10/12/12	MG	10/09/12	OP43902	SW3296

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	80% [a]	33-118%
4165-60-0	Nitrobenzene-d5	75% [a]	42-108%
321-60-8	2-Fluorobiphenyl	62% [a]	40-106%
1718-51-0	Terphenyl-d14	76% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W068009.D	1	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	76% [a]	33-118%
4165-60-0	Nitrobenzene-d5	71% [a]	42-108%
321-60-8	2-Fluorobiphenyl	59% [a]	40-106%
1718-51-0	Terphenyl-d14	76% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Method Blank Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W068055.D	1	10/16/12	MG	10/09/12	OP43902	SW3299

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75% [a]	33-118%
4165-60-0	Nitrobenzene-d5	71% [a]	42-108%
321-60-8	2-Fluorobiphenyl	59% [a]	40-106%
1718-51-0	Terphenyl-d14	72% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Blank Spike Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-BS	X025912.D	1	10/10/12	FS	10/09/12	OP43901	SX1251

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
120-83-2	2,4-Dichlorophenol	50	41.0	82	53-108
105-67-9	2,4-Dimethylphenol	50	33.2	66	37-91
95-48-7	2-Methylphenol	50	33.3	67	35-91
	3&4-Methylphenol	100	61.0	61	32-85
108-95-2	Phenol	50	17.2	34	13-54
88-06-2	2,4,6-Trichlorophenol	50	41.6	83	58-107
85-68-7	Butyl benzyl phthalate	50	42.7	85	59-114
86-74-8	Carbazole	50	42.8	86	66-109
132-64-9	Dibenzofuran	50	42.2	84	61-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.5	85	59-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-62%
4165-62-2	Phenol-d5	33%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	78%	42-108%
321-60-8	2-Fluorobiphenyl	78%	40-106%
1718-51-0	Terphenyl-d14	86%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-BS	W067990.D	1	10/12/12	MG	10/09/12	OP43902	SW3296

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	11.9	60	57-118
83-32-9	Acenaphthene	10	7.9	79	56-99
208-96-8	Acenaphthylene	10	7.9	79	57-102
120-12-7	Anthracene	5	4.2	84	66-103
56-55-3	Benzo(a)anthracene	5	4.4	88	64-105
50-32-8	Benzo(a)pyrene	5	4.4	88	64-106
205-99-2	Benzo(b)fluoranthene	5	3.6	72	64-109
191-24-2	Benzo(g,h,i)perylene	5	4.4	88	46-104
207-08-9	Benzo(k)fluoranthene	5	4.2	84	64-106
218-01-9	Chrysene	5	4.3	86	64-104
53-70-3	Dibenzo(a,h)anthracene	5	4.4	88	43-105
206-44-0	Fluoranthene	10	8.9	89	64-105
86-73-7	Fluorene	10	8.4	84	58-101
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.4	88	49-104
91-57-6	2-Methylnaphthalene	10	7.3	73	52-101
91-20-3	Naphthalene	10	7.6	76	52-103
85-01-8	Phenanthrene	10	8.5	85	62-102
129-00-0	Pyrene	10	8.9	89	66-106

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	96%	33-118%
4165-60-0	Nitrobenzene-d5	82%	42-108%
321-60-8	2-Fluorobiphenyl	81%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-BS	W068008.D	1	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	12.1	61	57-118
83-32-9	Acenaphthene	10	7.5	75	56-99
208-96-8	Acenaphthylene	10	7.4	74	57-102
120-12-7	Anthracene	5	4.1	82	66-103
56-55-3	Benzo(a)anthracene	5	4.3	86	64-105
50-32-8	Benzo(a)pyrene	5	4.5	90	64-106
205-99-2	Benzo(b)fluoranthene	5	3.4	68	64-109
191-24-2	Benzo(g,h,i)perylene	5	4.3	86	46-104
207-08-9	Benzo(k)fluoranthene	5	4.2	84	64-106
218-01-9	Chrysene	5	4.2	84	64-104
53-70-3	Dibenzo(a,h)anthracene	5	4.2	84	43-105
206-44-0	Fluoranthene	10	8.6	86	64-105
86-73-7	Fluorene	10	7.9	79	58-101
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.3	86	49-104
91-57-6	2-Methylnaphthalene	10	7.2	72	52-101
91-20-3	Naphthalene	10	7.5	75	52-103
85-01-8	Phenanthrene	10	8.3	83	62-102
129-00-0	Pyrene	10	8.8	88	66-106

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	90%	33-118%
4165-60-0	Nitrobenzene-d5	81%	42-108%
321-60-8	2-Fluorobiphenyl	79%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MS2	T004531.D	4	10/11/12	FS	10/09/12	OP43901	ST230
OP43901-MSD2	T004532.D	4	10/11/12	FS	10/09/12	OP43901	ST230
F97561-2 [a]	T004530.D	4	10/11/12	FS	10/09/12	OP43901	ST230

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
120-83-2	2,4-Dichlorophenol	4.7		96.2	100	99	90.4	89	10	53-108/26
105-67-9	2,4-Dimethylphenol	87.4		96.2	179	95*	167	83	7	37-91/28
95-48-7	2-Methylphenol	7.8		96.2	94.3	90	85.3	81	10	35-91/30
	3&4-Methylphenol	ND		192	171	89*	150	78	13	32-85/29
108-95-2	Phenol	ND		96.2	60.7	63*	50.4	52	19	13-54/34
88-06-2	2,4,6-Trichlorophenol	ND		96.2	91.1	95	84.2	88	8	58-107/24
85-68-7	Butyl benzyl phthalate	ND		96.2	97.5	101	87.3	91	11	59-114/20
86-74-8	Carbazole	72.2		96.2	182	114*	173	105	5	66-109/20
132-64-9	Dibenzofuran	47.5		96.2	147	103	137	93	7	61-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	95.6	99	84.1	87	13	59-116/21

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
367-12-4	2-Fluorophenol	71%* [b]	62%	37%	14-62%
4165-62-2	Phenol-d5	55%* [b]	46%* [b]	25%	10-40%
118-79-6	2,4,6-Tribromophenol	103%	91%	79%	33-118%
4165-60-0	Nitrobenzene-d5	90%	80%	71%	42-108%
321-60-8	2-Fluorobiphenyl	93%	80%	68%	40-106%
1718-51-0	Terphenyl-d14	99%	88%	74%	39-121%

(a) Dilution required due to high PAH levels.
(b) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MS2	W068015.D	100	10/15/12	MG	10/09/12	OP43902	SW3297
OP43902-MSD2	W068016.D	100	10/15/12	MG	10/09/12	OP43902	SW3297
F97561-2	W068010.D	100	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-2, F97561-9, F97561-10, F97561-11, F97561-12

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND		38.5	ND	0*	ND	0*	nc	57-118/26
83-32-9	Acenaphthene	80.7		19.2	107	137* [a]	116	184* [a]	8	56-99/27
208-96-8	Acenaphthylene	ND		19.2	ND	0*	ND	0*	nc	57-102/26
120-12-7	Anthracene	ND		9.62	ND	0*	ND	0*	nc	66-103/22
56-55-3	Benzo(a)anthracene	ND		9.62	9.2	96	9.3	97	1	64-105/18
50-32-8	Benzo(a)pyrene	ND		9.62	ND	0*	ND	0*	nc	64-106/21
205-99-2	Benzo(b)fluoranthene	ND		9.62	ND	0*	ND	0*	nc	64-109/20
191-24-2	Benzo(g,h,i)perylene	ND		9.62	ND	0*	ND	0*	nc	46-104/24
207-08-9	Benzo(k)fluoranthene	ND		9.62	ND	0*	ND	0*	nc	64-106/22
218-01-9	Chrysene	ND		9.62	7.9	82	8.4	87	6	64-104/18
53-70-3	Dibenzo(a,h)anthracene	ND		9.62	ND	0*	ND	0*	nc	43-105/26
206-44-0	Fluoranthene	ND		19.2	ND	0*	ND	0*	nc	64-105/23
86-73-7	Fluorene	ND		19.2	ND	0*	ND	0*	nc	58-101/23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9.62	ND	0*	ND	0*	nc	49-104/26
91-57-6	2-Methylnaphthalene	132		19.2	161	151* [a]	181	255* [a]	12	52-101/28
91-20-3	Naphthalene	2210		19.2	2660	2340* [a]	2950	3848* [a]	10	52-103/28
85-01-8	Phenanthrene	36.7		19.2	55.1	96	61.9	131*	12	62-102/24
129-00-0	Pyrene	ND		19.2	ND	0*	ND	0*	nc	66-106/18

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
118-79-6	2,4,6-Tribromophenol	0%* [b]	0%* [b]	0%* [b]	33-118%
4165-60-0	Nitrobenzene-d5	0%* [b]	0%* [b]	0%* [b]	42-108%
321-60-8	2-Fluorobiphenyl	0%* [b]	0%* [b]	0%* [b]	40-106%
1718-51-0	Terphenyl-d14	0%* [b]	0%* [b]	0%* [b]	39-121%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-DFTPP
Lab File ID: T004463.D
Instrument ID: GCMST
Injection Date: 10/09/12
Injection Time: 15:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	48218	34.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48730	34.6		Pass
70	Less than 2.0% of mass 69	312	0.22	(0.64) [a]	Pass
127	40.0 - 60.0% of mass 198	75186	53.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	140872	100.0		Pass
199	5.0 - 9.0% of mass 198	9265	6.58		Pass
275	10.0 - 30.0% of mass 198	33734	23.9		Pass
365	1.0 - 100.0% of mass 198	3699	2.63		Pass
441	Present, but less than mass 443	17549	12.5	(71.1) [b]	Pass
442	40.0 - 100.0% of mass 198	121296	86.1		Pass
443	17.0 - 23.0% of mass 442	24678	17.5	(20.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST227-IC227	T004464.D	10/09/12	16:15	00:16	Initial cal 5
ST227-IC227	T004465.D	10/09/12	16:44	00:45	Initial cal 10
ST227-IC227	T004466.D	10/09/12	17:12	01:13	Initial cal 25
ST227-IC227	T004467.D	10/09/12	17:40	01:41	Initial cal 50
ST227-IC227	T004468.D	10/09/12	18:08	02:09	Initial cal 60
ST227-ICC227	T004469.D	10/09/12	18:36	02:37	Initial cal 75
ST227-IC227	T004470.D	10/09/12	19:04	03:05	Initial cal 100
ST227-ICV227	T004471.D	10/09/12	19:32	03:33	Initial cal verification 50
ST227-ICV227	T004472.D	10/09/12	20:00	04:01	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	ST230-DFTPP	**Injection Date:**	10/11/12
Lab File ID:	T004527.D	**Injection Time:**	11:11
Instrument ID:	GCMST		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34136	34.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	34294	34.2		Pass
70	Less than 2.0% of mass 69	168	0.17	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	53056	52.9		Pass
197	Less than 1.0% of mass 198	240	0.24		Pass
198	Base peak, 100% relative abundance	100309	100.0		Pass
199	5.0 - 9.0% of mass 198	6928	6.91		Pass
275	10.0 - 30.0% of mass 198	25008	24.9		Pass
365	1.0 - 100.0% of mass 198	3021	3.01		Pass
441	Present, but less than mass 443	13846	13.8	(67.5) [b]	Pass
442	40.0 - 100.0% of mass 198	97216	96.9		Pass
443	17.0 - 23.0% of mass 442	20507	20.4	(21.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST230-CC227	T004528.D	10/11/12	11:27	00:16	Continuing cal 50
OP43901-MB	T004529.D	10/11/12	11:56	00:45	Method Blank
F97561-2	T004530.D	10/11/12	12:24	01:13	MW-34A (100212)
OP43901-MS2	T004531.D	10/11/12	12:52	01:41	Matrix Spike
OP43901-MSD2	T004532.D	10/11/12	13:20	02:09	Matrix Spike Duplicate
ZZZZZZ	T004533.D	10/11/12	13:47	02:36	(unrelated sample)
F97561-9	T004534.D	10/11/12	14:15	03:04	MW-37C (100212)
F97561-12	T004535.D	10/11/12	14:43	03:32	MW-26A (100212)
ZZZZZZ	T004536.D	10/11/12	15:11	04:00	(unrelated sample)
OP43922-MB	T004537.D	10/11/12	15:39	04:28	Method Blank
OP43922-MS	T004539.D	10/11/12	16:36	05:25	Matrix Spike
OP43922-MSD	T004540.D	10/11/12	17:04	05:53	Matrix Spike Duplicate
ZZZZZZ	T004541.D	10/11/12	17:32	06:21	(unrelated sample)
ZZZZZZ	T004542.D	10/11/12	18:00	06:49	(unrelated sample)
ZZZZZZ	T004543.D	10/11/12	18:28	07:17	(unrelated sample)
OP43948-BS	T004544.D	10/11/12	18:56	07:45	Blank Spike
OP43948-MB	T004545.D	10/11/12	19:24	08:13	Method Blank
ZZZZZZ	T004546.D	10/11/12	19:51	08:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3290-DFTPP
Lab File ID: W067837.D
Instrument ID: GCMSW
Injection Date: 10/05/12
Injection Time: 14:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	4873	48.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	3826	37.9		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	4671	46.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	10108	100.0		Pass
199	5.0 - 9.0% of mass 198	679	6.72		Pass
275	10.0 - 30.0% of mass 198	2080	20.6		Pass
365	1.0 - 100.0% of mass 198	177	1.75		Pass
441	Present, but less than mass 443	892	8.82	(84.0) [b]	Pass
442	40.0 - 100.0% of mass 198	5730	56.7		Pass
443	17.0 - 23.0% of mass 442	1062	10.5	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3290-IC3290	W067839.D	10/05/12	15:20	01:20	Initial cal 1
SW3290-IC3290	W067840.D	10/05/12	15:41	01:41	Initial cal 2
SW3290-IC3290	W067841.D	10/05/12	16:01	02:01	Initial cal 3
SW3290-ICC3290	W067842.D	10/05/12	16:22	02:22	Initial cal 4
SW3290-IC3290	W067843.D	10/05/12	16:43	02:43	Initial cal 5
SW3290-IC3290	W067844.D	10/05/12	17:04	03:04	Initial cal 6
SW3290-IC3290	W067845.D	10/05/12	17:24	03:24	Initial cal 7
SW3290-ICV3290	W067846.D	10/05/12	17:45	03:45	Initial cal verification 4
SW3290-ICV3290	W067847.D	10/05/12	18:06	04:06	Initial cal verification 4

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3296-DFTPP
Lab File ID: W067987.D
Instrument ID: GCMSW
Injection Date: 10/12/12
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	2509	50.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	1982	39.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	2412	48.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	5023	100.0		Pass
199	5.0 - 9.0% of mass 198	356	7.09		Pass
275	10.0 - 30.0% of mass 198	1064	21.2		Pass
365	1.0 - 100.0% of mass 198	62	1.23		Pass
441	Present, but less than mass 443	416	8.28	(78.9) [b]	Pass
442	40.0 - 100.0% of mass 198	2892	57.6		Pass
443	17.0 - 23.0% of mass 442	527	10.5	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3296-CC3290	W067988.D	10/12/12	11:21	00:15	Continuing cal 5
OP43902-BS	W067990.D	10/12/12	13:25	02:19	Blank Spike
OP43902-MB	W067991.D	10/12/12	13:57	02:51	Method Blank
F97553-5	W067992.D	10/12/12	14:18	03:12	(used for QC only; not part of job F97561)
ZZZZZZ	W067994.D	10/12/12	14:59	03:53	(unrelated sample)
ZZZZZZ	W067995.D	10/12/12	15:20	04:14	(unrelated sample)
F97561-10	W067998.D	10/12/12	16:23	05:17	MW-37B (100212)
F97561-11	W067999.D	10/12/12	16:43	05:37	MW-37A (100212)
F97561-12	W068000.D	10/12/12	17:04	05:58	MW-26A (100212)
ZZZZZZ	W068001.D	10/12/12	17:25	06:19	(unrelated sample)
ZZZZZZ	W068002.D	10/12/12	17:46	06:40	(unrelated sample)
ZZZZZZ	W068003.D	10/12/12	18:07	07:01	(unrelated sample)
OP43902-MS1	W068005.D	10/12/12	18:48	07:42	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3297-DFTPP
Lab File ID: W068006.D
Instrument ID: GCMSW
Injection Date: 10/15/12
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	1972	47.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	1630	39.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	1959	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	4163	100.0		Pass
199	5.0 - 9.0% of mass 198	282	6.77		Pass
275	10.0 - 30.0% of mass 198	897	21.5		Pass
365	1.0 - 100.0% of mass 198	87	2.09		Pass
441	Present, but less than mass 443	360	8.65	(74.1) [b]	Pass
442	40.0 - 100.0% of mass 198	2352	56.5		Pass
443	17.0 - 23.0% of mass 442	486	11.7	(20.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3297-CC3290	W068007.D	10/15/12	10:07	00:15	Continuing cal 4
OP43902-BS	W068008.D	10/15/12	10:34	00:42	Blank Spike
OP43902-MB	W068009.D	10/15/12	10:55	01:03	Method Blank
F97561-2	W068010.D	10/15/12	11:16	01:24	MW-34A (100212)
ZZZZZZ	W068013.D	10/15/12	12:18	02:26	(unrelated sample)
OP43902-MSD1	W068014.D	10/15/12	12:39	02:47	Matrix Spike Duplicate
OP43902-MS2	W068015.D	10/15/12	13:00	03:08	Matrix Spike
OP43902-MSD2	W068016.D	10/15/12	13:21	03:29	Matrix Spike Duplicate
OP43917-MB	W068017.D	10/15/12	13:41	03:49	Method Blank
ZZZZZZ	W068018.D	10/15/12	14:02	04:10	(unrelated sample)
OP43917-MS	W068019.D	10/15/12	14:23	04:31	Matrix Spike
ZZZZZZ	W068020.D	10/15/12	14:44	04:52	(unrelated sample)
ZZZZZZ	W068021.D	10/15/12	15:05	05:13	(unrelated sample)
ZZZZZZ	W068022.D	10/15/12	15:26	05:34	(unrelated sample)
ZZZZZZ	W068023.D	10/15/12	15:47	05:55	(unrelated sample)
ZZZZZZ	W068024.D	10/15/12	16:08	06:16	(unrelated sample)
OP43892-MB	W068025.D	10/15/12	16:29	06:37	Method Blank
ZZZZZZ	W068026.D	10/15/12	16:50	06:58	(unrelated sample)
OP43940-MB	W068027.D	10/15/12	17:11	07:19	Method Blank

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SW3297-DFTPP	**Injection Date:**	10/15/12
Lab File ID:	W068006.D	**Injection Time:**	09:52
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W068028.D	10/15/12	17:32	07:40	(unrelated sample)
ZZZZZZ	W068029.D	10/15/12	17:53	08:01	(unrelated sample)
ZZZZZZ	W068030.D	10/15/12	18:14	08:22	(unrelated sample)
ZZZZZZ	W068031.D	10/15/12	18:35	08:43	(unrelated sample)
ZZZZZZ	W068032.D	10/15/12	18:55	09:03	(unrelated sample)
ZZZZZZ	W068033.D	10/15/12	19:16	09:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3299-DFTPP
Lab File ID: W068052.D
Instrument ID: GCMSW
Injection Date: 10/16/12
Injection Time: 10:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	2710	46.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	2234	38.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	2699	46.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	5844	100.0		Pass
199	5.0 - 9.0% of mass 198	425	7.27		Pass
275	10.0 - 30.0% of mass 198	1269	21.7		Pass
365	1.0 - 100.0% of mass 198	110	1.88		Pass
441	Present, but less than mass 443	473	8.09	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	3432	58.7		Pass
443	17.0 - 23.0% of mass 442	639	10.9	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3299-CC3290	W068053.D	10/16/12	10:59	00:16	Continuing cal 4
OP43902-MB	W068055.D	10/16/12	11:40	00:57	Method Blank
ZZZZZZ	W068056.D	10/16/12	12:01	01:18	(unrelated sample)
F97561-9	W068057.D	10/16/12	12:21	01:38	MW-37C (100212)
OP43946-BS	W068058.D	10/16/12	12:42	01:59	Blank Spike
OP43946-MB	W068059.D	10/16/12	13:03	02:20	Method Blank
OP43946-BS	W068060.D	10/16/12	13:23	02:40	Blank Spike
ZZZZZZ	W068061.D	10/16/12	13:59	03:16	(unrelated sample)
ZZZZZZ	W068062.D	10/16/12	14:20	03:37	(unrelated sample)
ZZZZZZ	W068063.D	10/16/12	14:49	04:06	(unrelated sample)
ZZZZZZ	W068064.D	10/16/12	15:10	04:27	(unrelated sample)
ZZZZZZ	W068065.D	10/16/12	15:31	04:48	(unrelated sample)
ZZZZZZ	W068066.D	10/16/12	15:52	05:09	(unrelated sample)
ZZZZZZ	W068067.D	10/16/12	16:12	05:29	(unrelated sample)
F97654-2	W068068.D	10/16/12	16:33	05:50	(used for QC only; not part of job F97561)
OP43946-MS	W068069.D	10/16/12	16:54	06:11	Matrix Spike
OP43946-MSD	W068070.D	10/16/12	17:15	06:32	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-DFTPP
Lab File ID: X025734.D
Instrument ID: GCMSX
Injection Date: 10/01/12
Injection Time: 11:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36737	46.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	31993	40.6		Pass
70	Less than 2.0% of mass 69	174	0.22	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	38088	48.4		Pass
197	Less than 1.0% of mass 198	768	0.98		Pass
198	Base peak, 100% relative abundance	78733	100.0		Pass
199	5.0 - 9.0% of mass 198	5290	6.72		Pass
275	10.0 - 30.0% of mass 198	16553	21.0		Pass
365	1.0 - 100.0% of mass 198	2026	2.57		Pass
441	Present, but less than mass 443	9468	12.0	(77.0) [b]	Pass
442	40.0 - 100.0% of mass 198	61584	78.2		Pass
443	17.0 - 23.0% of mass 442	12302	15.6	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1244-IC1244	X025736.D	10/01/12	11:48	00:44	Initial cal 5
SX1244-IC1244	X025737.D	10/01/12	12:16	01:12	Initial cal 10
SX1244-IC1244	X025738.D	10/01/12	12:43	01:39	Initial cal 25
SX1244-IC1244	X025739.D	10/01/12	13:10	02:06	Initial cal 50
SX1244-IC1244	X025740.D	10/01/12	13:38	02:34	Initial cal 60
SX1244-ICC1244	X025741.D	10/01/12	14:05	03:01	Initial cal 75
SX1244-IC1244	X025742.D	10/01/12	14:33	03:29	Initial cal 100
SX1244-ICV1244	X025743.D	10/01/12	15:01	03:57	Initial cal verification 50
SX1244-ICV1244	X025744.D	10/01/12	15:29	04:25	Initial cal verification 50
OP43777-BS	X025745.D	10/01/12	15:59	04:55	Blank Spike
OP43777-MB	X025746.D	10/01/12	16:27	05:23	Method Blank
ZZZZZZ	X025747.D	10/01/12	16:55	05:51	(unrelated sample)
ZZZZZZ	X025748.D	10/01/12	17:22	06:18	(unrelated sample)
ZZZZZZ	X025749.D	10/01/12	17:50	06:46	(unrelated sample)
ZZZZZZ	X025750.D	10/01/12	18:18	07:14	(unrelated sample)
ZZZZZZ	X025751.D	10/01/12	18:45	07:41	(unrelated sample)
ZZZZZZ	X025752.D	10/01/12	19:13	08:09	(unrelated sample)
ZZZZZZ	X025753.D	10/01/12	19:41	08:37	(unrelated sample)
ZZZZZZ	X025754.D	10/01/12	20:08	09:04	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SX1244-DFTPP	**Injection Date:**	10/01/12
Lab File ID:	X025734.D	**Injection Time:**	11:04
Instrument ID:	GCMSX		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP43759-MB	X025755.D	10/01/12	20:35	09:31	Method Blank
ZZZZZZ	X025756.D	10/01/12	21:03	09:59	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1251-DFTPP
Lab File ID: X025910.D
Instrument ID: GCMSX
Injection Date: 10/10/12
Injection Time: 11:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50952	56.7		Pass
68	Less than 2.0% of mass 69	258	0.29	(0.61) [a]	Pass
69	Mass 69 relative abundance	42602	47.4		Pass
70	Less than 2.0% of mass 69	246	0.27	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	47005	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	89933	100.0		Pass
199	5.0 - 9.0% of mass 198	6192	6.89		Pass
275	10.0 - 30.0% of mass 198	18850	21.0		Pass
365	1.0 - 100.0% of mass 198	2047	2.28		Pass
441	Present, but less than mass 443	9714	10.8	(77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	63639	70.8		Pass
443	17.0 - 23.0% of mass 442	12590	14.0	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1251-CC1244	X025911.D	10/10/12	11:36	00:17	Continuing cal 50
OP43901-BS	X025912.D	10/10/12	12:06	00:47	Blank Spike
OP43901-MB	X025913.D	10/10/12	12:33	01:14	Method Blank
F97553-5	X025914.D	10/10/12	13:01	01:42	(used for QC only; not part of job F97561)
OP43901-MS1	X025915.D	10/10/12	13:28	02:09	Matrix Spike
OP43901-MSD1	X025916.D	10/10/12	13:56	02:37	Matrix Spike Duplicate
ZZZZZZ	X025920.D	10/10/12	15:46	04:27	(unrelated sample)
ZZZZZZ	X025921.D	10/10/12	16:14	04:55	(unrelated sample)
F97561-10	X025924.D	10/10/12	17:37	06:18	MW-37B (100212)
F97561-11	X025925.D	10/10/12	18:05	06:46	MW-37A (100212)
ZZZZZZ	X025927.D	10/10/12	19:00	07:41	(unrelated sample)
ZZZZZZ	X025928.D	10/10/12	19:27	08:08	(unrelated sample)
ZZZZZZ	X025929.D	10/10/12	19:54	08:35	(unrelated sample)
OP43884-MB	X025931.D	10/10/12	20:49	09:30	Method Blank
ZZZZZZ	X025932.D	10/10/12	21:16	09:57	(unrelated sample)
ZZZZZZ	X025933.D	10/10/12	21:43	10:24	(unrelated sample)
ZZZZZZ	X025934.D	10/10/12	22:10	10:51	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	ST230-CC227	**Injection Date:**	10/11/12
Lab File ID:	T004528.D	**Injection Time:**	11:27
Instrument ID:	GCMST	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	117721	4.15	488349	5.12	235276	7.09	394660	9.37	302296	14.18	270792	16.63
Check Std [b]	167644	4.10	699855	5.06	341523	7.01	551024	9.28	429688	14.08	388592	16.53
Upper Limit [c]	335288	4.60	1399710	5.56	683046	7.51	1102048	9.78	859376	14.58	777184	17.03
Lower Limit [d]	83822	3.60	349928	4.56	170762	6.51	275512	8.78	214844	13.58	194296	16.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP43901-MB	144289	4.10	599812	5.06	297201	7.00	471870	9.28	384896	14.07	340994	16.52
F97561-2 [e]	126230	4.10	474584	5.06	251222	7.00	395521	9.28	317775	14.06	281623	16.52
OP43901-MS2	121974	4.10	484155	5.06	237603	7.00	376880	9.28	302220	14.07	269544	16.52
OP43901-MSD2	132675	4.10	534817	5.06	268544	7.00	427848	9.28	343473	14.07	305498	16.52
ZZZZZZ	118686	4.10	461585	5.06	246849	7.00	389643	9.28	313455	14.06	276892	16.52
F97561-9 [e]	120928	4.10	472008	5.06	242896	7.00	391119	9.28	305672	14.06	274090	16.52
F97561-12 [e]	119041	4.10	419677	5.06	239282	7.00	380697	9.28	355624	14.07	275023	16.52
ZZZZZZ	122877	4.10	456878	5.06	246857	7.00	383640	9.28	311832	14.06	278629	16.52
OP43922-MB	126963	4.09	518184	5.06	257607	7.00	406598	9.28	318286	14.06	286849	16.52
OP43922-MS	121852	4.09	451986	5.06	242578	7.00	386494	9.28	311805	14.07	282506	16.52
OP43922-MSD	122954	4.09	422001	5.07	242465	7.01	382577	9.28	309400	14.07	279534	16.52
ZZZZZZ	145402	4.09	600916	5.06	293603	7.00	458543	9.28	365206	14.06	326034	16.52
ZZZZZZ	112740	4.09	417875	5.06	227691	7.00	358296	9.28	286293	14.06	251308	16.52
ZZZZZZ	122390	4.09	507212	5.05	248572	7.00	392518	9.28	306310	14.07	277882	16.52
OP43948-BS [f]	110089	4.09	458809	5.05	223931	7.00	354789	9.27	283972	14.06	252335	16.52
OP43948-MB	116401	4.09	473517	5.05	236413	7.00	371890	9.27	293357	14.06	259366	16.52
ZZZZZZ	119725	4.09	449374	5.06	244301	7.00	378371	9.29	305184	14.07	277697	16.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ST227-ICC227 T004469.D 10/09/12 18:36
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Dilution required due to high PAH levels.
(f) Outside control limits due to dilution.

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3296-CC3290	**Injection Date:**	10/12/12
Lab File ID:	W067988.D	**Injection Time:**	11:21
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	485013	4.51	268551	6.04	424916	7.32	340310	9.84	224730	11.96
Upper Limit [c]	970026	5.01	537102	6.54	849832	7.82	680620	10.34	449460	12.46
Lower Limit [d]	242507	4.01	134276	5.54	212458	6.82	170155	9.34	112365	11.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-BS	454595	4.51	252633	6.04	397339	7.32	318538	9.85	208348	11.97
OP43902-MB	517593	4.51	285513	6.05	447376	7.32	342757	9.85	218283	11.96
F97553-5	557251	4.51	309954	6.04	482792	7.31	375546	9.84	243568	11.95
ZZZZZZ	577612	4.51	300146	6.03	460213	7.31	371425	9.84	244771	11.95
ZZZZZZ	582941	4.51	311072	6.03	491946	7.32	395199	9.84	265143	11.95
F97561-10	629530	4.51	306118	6.04	496607	7.32	407199	9.84	272919	11.96
F97561-11	552123	4.51	304128	6.04	464837	7.31	370655	9.84	244721	11.95
F97561-12	510264	4.50	282546	6.04	447028	7.31	348885	9.84	230946	11.95
ZZZZZZ	466869	4.51	253747	6.03	400858	7.31	331151	9.84	224492	11.96
ZZZZZZ	440132	4.51	253672	6.04	385295	7.31	309569	9.84	205890	11.95
ZZZZZZ	526869	4.51	294036	6.04	466020	7.31	375579	9.84	251525	11.95
OP43902-MS1	428624	4.51	237376	6.03	371577	7.31	302416	9.84	204373	11.95

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3297-CC3290	**Injection Date:**	10/15/12
Lab File ID:	W068007.D	**Injection Time:**	10:07
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	477836	4.51	276319	6.04	426812	7.31	346832	9.84	226565	11.95
Upper Limit [c]	955672	5.01	552638	6.54	853624	7.81	693664	10.34	453130	12.45
Lower Limit [d]	238918	4.01	138160	5.54	213406	6.81	173416	9.34	113283	11.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-BS	433724	4.51	246064	6.04	374833	7.32	296203	9.84	196860	11.96
OP43902-MB	455971	4.51	252322	6.04	399658	7.31	305134	9.84	194042	11.95
F97561-2	422286	4.51	242035	6.04	374473	7.31	282415	9.84	177847	11.95
ZZZZZZ	433915	4.50	245178	6.03	376838	7.31	287382	9.84	181136	11.95
OP43902-MSD1	451040	4.51	254401	6.04	397645	7.31	317130	9.84	215182	11.95
OP43902-MS2	433609	4.50	246195	6.03	377827	7.31	286446	9.84	179322	11.95
OP43902-MSD2	431417	4.51	246828	6.04	372118	7.31	286879	9.84	178867	11.95
OP43917-MB	605677	4.51	336310	6.04	514853	7.31	401858	9.84	249471	11.95
ZZZZZZ	578911	4.51	326324	6.04	490055	7.31	386999	9.84	251944	11.95
OP43917-MS	532294	4.51	302389	6.04	472081	7.32	383590	9.84	252750	11.95
ZZZZZZ	461117	4.51	255072	6.03	393013	7.31	300919	9.84	187951	11.95
ZZZZZZ	475534	4.51	264086	6.03	408385	7.31	308065	9.84	196003	11.95
ZZZZZZ	494663	4.51	277038	6.03	423502	7.31	321416	9.84	204177	11.95
ZZZZZZ	479135	4.51	268303	6.03	409547	7.31	310410	9.84	198897	11.95
ZZZZZZ	480237	4.51	270069	6.03	411649	7.31	323549	9.84	198009	11.95
OP43892-MB	526456	4.51	288714	6.03	447909	7.31	355542	9.84	225195	11.95
ZZZZZZ	399507	4.51	250206	6.04	341322	7.32	278887	9.84	180475	11.95
OP43940-MB	521230	4.51	290130	6.03	450145	7.31	350744	9.84	232625	11.95
ZZZZZZ	492423	4.51	282360	6.03	437981	7.31	345873	9.84	237716	11.95
ZZZZZZ	480126	4.51	271417	6.03	422059	7.32	347001	9.85	223604	11.97
ZZZZZZ	531235	4.51	293665	6.04	438456	7.32	345404	9.86	216029	11.98
ZZZZZZ	433416	4.51	246102	6.04	377247	7.32	308760	9.85	198186	11.97
ZZZZZZ	423288	4.51	245799	6.04	372725	7.32	310230	9.86	199980	11.98
ZZZZZZ	483267	4.51	263186	6.04	403824	7.32	327058	9.86	198993	11.98

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3297-CC3290	**Injection Date:**	10/15/12
Lab File ID:	W068007.D	**Injection Time:**	10:07
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3299-CC3290	**Injection Date:**	10/16/12
Lab File ID:	W068053.D	**Injection Time:**	10:59
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	419284	4.49	237479	6.03	369689	7.31	301906	9.83	196766	11.94
Upper Limit [c]	838568	4.99	474958	6.53	739378	7.81	603812	10.33	393532	12.44
Lower Limit [d]	209642	3.99	118740	5.53	184845	6.81	150953	9.33	98383	11.44

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-MB	498098	4.49	280371	6.03	449236	7.31	344297	9.83	222109	11.94
ZZZZZZ	367906	4.49	212204	6.03	331350	7.31	262872	9.83	169921	11.93
F97561-9	486700	4.49	278126	6.03	435551	7.31	348770	9.83	225037	11.93
OP43946-BS	405802	4.49	240331	6.03	369222	7.31	302093	9.83	201436	11.94
OP43946-MB	401091	4.49	226972	6.03	356589	7.31	279956	9.83	178545	11.93
OP43946-BS	451107	4.49	233089	6.03	366522	7.31	294340	9.83	197712	11.93
ZZZZZZ	338656	4.50	188922	6.03	300144	7.31	239116	9.83	152413	11.95
ZZZZZZ	340617	4.49	191769	6.03	294092	7.30	230674	9.83	149880	11.94
ZZZZZZ	361754	4.49	196170	6.03	303557	7.31	245334	9.84	162298	11.94
ZZZZZZ	357811	4.49	200846	6.03	309306	7.31	257317	9.83	172488	11.94
ZZZZZZ	445081	4.49	247883	6.03	396465	7.31	332235	9.83	223069	11.94
ZZZZZZ	414949	4.49	235867	6.03	362135	7.31	287626	9.83	191700	11.94
ZZZZZZ	418281	4.49	234998	6.03	368625	7.30	295967	9.83	188382	11.94
F97654-2	360719	4.49	205343	6.03	312095	7.31	255315	9.83	171642	11.93
OP43946-MS [e]	407882	4.49	232325	6.03	362237	7.31	297455	9.83	203795	11.94
OP43946-MSD [e]	389602	4.49	221904	6.03	349296	7.31	285057	9.83	191471	11.93

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Dilution required due to matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX1251-CC1244	**Injection Date:**	10/10/12
Lab File ID:	X025911.D	**Injection Time:**	11:36
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	253473	3.74	971440	4.68	509318	6.45	752872	8.62	496260	13.36	405434	15.80
Check Std [b]	285044	3.53	1094827	4.46	574352	6.10	848239	8.18	545970	12.85	441029	15.27
Upper Limit [c]	570088	4.03	2189654	4.96	1148704	6.60	1696478	8.68	1091940	13.35	882058	15.77
Lower Limit [d]	142522	3.03	547414	3.96	287176	5.60	424120	7.68	272985	12.35	220515	14.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP43901-BS	183268	3.52	742163	4.46	393136	6.09	606977	8.18	420734	12.84	358887	15.27
OP43901-MB	194803	3.51	774205	4.46	408479	6.09	622324	8.17	439285	12.83	359319	15.25
F97553-5	231228	3.52	918904	4.46	493793	6.09	768343	8.17	530665	12.83	427852	15.25
OP43901-MS1	187315	3.52	747152	4.46	395538	6.09	598699	8.18	396035	12.84	324450	15.25
OP43901-MSD1	199620	3.52	813328	4.46	436663	6.09	672519	8.18	453234	12.84	363564	15.26
ZZZZZZ	201227	3.51	810935	4.46	431433	6.09	674012	8.17	476067	12.83	384431	15.25
ZZZZZZ	245556	3.52	997781	4.46	518838	6.09	826605	8.17	599079	12.84	502502	15.26
F97561-10	218440	3.51	919236	4.46	478791	6.09	750288	8.17	534727	12.84	427863	15.26
F97561-11	228561	3.51	898127	4.46	474075	6.09	743248	8.17	534198	12.83	444130	15.26
ZZZZZZ	232652	3.51	913286	4.46	492615	6.09	760480	8.17	535579	12.84	441115	15.26
ZZZZZZ	244065	3.51	953781	4.46	508328	6.09	813654	8.17	582451	12.83	475452	15.26
ZZZZZZ	212953	3.51	850530	4.46	452437	6.09	715507	8.17	507701	12.83	416901	15.26
OP43884-MB	283607	3.51	1121441	4.46	583779	6.09	902706	8.17	647342	12.84	529245	15.26
ZZZZZZ	179666	3.51	707159	4.45	367564	6.08	564476	8.16	417181	12.84	350485	15.27
ZZZZZZ	195290	3.51	779851	4.45	403370	6.08	624601	8.17	462665	12.84	384295	15.27
ZZZZZZ	195935	3.51	758768	4.45	384971	6.08	588093	8.17	402126	12.85	346659	15.27

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1244-ICC1244 X025741.D 10/01/12 14:05
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F97561-2	T004530.D	37.0	25.0	79.0	71.0	68.0	74.0
F97561-9	T004534.D	42.0	29.0	87.0	79.0	78.0	87.0
F97561-10	X025924.D	37.0	25.0	73.0	62.0	65.0	73.0
F97561-11	X025925.D	41.0	27.0	73.0	67.0	68.0	74.0
F97561-12	T004535.D	48.0	33.0	91.0	91.0	84.0	78.0
OP43901-BS	X025912.D	47.0	33.0	84.0	78.0	78.0	86.0
OP43901-MB	X025913.D	53.0	37.0	84.0	77.0	76.0	92.0
OP43901-MB	T004529.D	48.0	35.0	83.0	73.0	72.0	88.0
OP43901-MS2	T004531.D	71.0* [a]	55.0* [a]	103.0	90.0	93.0	99.0
OP43901-MSD2	T004532.D	62.0	46.0* [a]	91.0	80.0	80.0	88.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-62%
S2 = Phenol-d5	10-40%
S3 = 2,4,6-Tribromophenol	33-118%
S4 = Nitrobenzene-d5	42-108%
S5 = 2-Fluorobiphenyl	40-106%
S6 = Terphenyl-d14	39-121%

(a) Outside control limits.

Semivolatile Surrogate Recovery Summary

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F97561-2	W068010.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
F97561-9	W068057.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
F97561-10	W067998.D	85.0 [b]	63.0 [b]	61.0 [b]	65.0 [b]
F97561-11	W067999.D	88.0 [b]	69.0 [b]	57.0 [b]	68.0 [b]
F97561-12	W068000.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
OP43902-BS	W067990.D	96.0	82.0	81.0	93.0
OP43902-BS	W068008.D	90.0	81.0	79.0	93.0
OP43902-MB	W067991.D	80.0 [b]	75.0 [b]	62.0 [b]	76.0 [b]
OP43902-MB	W068009.D	76.0 [b]	71.0 [b]	59.0 [b]	76.0 [b]
OP43902-MB	W068055.D	75.0 [b]	71.0 [b]	59.0 [b]	72.0 [b]
OP43902-MS2	W068015.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]
OP43902-MSD2	W068016.D	0.0* [a]	0.0* [a]	0.0* [a]	0.0* [a]

Surrogate Compounds	Recovery Limits
S1 = 2,4,6-Tribromophenol	33-118%
S2 = Nitrobenzene-d5	42-108%
S3 = 2-Fluorobiphenyl	40-106%
S4 = Terphenyl-d14	39-121%

(a) Outside control limits due to dilution.
(b) Surrogate recoveries corrected for actual spike amount.

Initial Calibration Summary

Job Number: F97561 **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA06

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:45:22 2012
Response via : Initial Calibration

Calibration Files
5 =T004464.D 10 =T004465.D 25 =T004466.D 50 =T004467.D
60 =T004468.D 75 =T004469.D 100 =T004470.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.746	0.710	0.705	0.714	0.695	0.705	0.712	0.712	2.25
3) N-nitrosodimethyl	0.688	0.678	0.637	0.647	0.628	0.631	0.639	0.650	3.64
4) Pyridine	1.359	1.415	1.474	1.548	1.431	1.516	1.549	1.471	4.91
5)P Benzaldehyde	1.160	1.192	1.117	0.992	0.890	0.807	0.654	0.973	20.58
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 1.28097 *A + -0.25144 *A^2									
6) Aniline	2.460	2.380	2.281	2.262	2.191	2.207	2.213	2.285	4.39
7)S 2-Fluorophenol	1.580	1.514	1.485	1.473	1.417	1.406	1.393	1.467	4.58
8)P bis(2-Chloroethyl	1.626	1.563	1.493	1.530	1.467	1.487	1.478	1.520	3.78
9)S Phenol-d5	1.995	1.895	1.789	1.766	1.694	1.669	1.615	1.775	7.51
10)P Phenol	2.193	2.116	2.026	1.985	1.931	1.879	1.687	1.974	8.37
11)P 2-Chlorophenol	1.738	1.676	1.583	1.617	1.551	1.581	1.592	1.620	4.02
12) 1,3-Dichlorobenze	1.772	1.795	1.671	1.633	1.612	1.614	1.601	1.671	4.80
13) 1,4-Dichlorobenze	1.835	1.765	1.688	1.659	1.619	1.597	1.557	1.674	5.83
14) 1,2-Dichlorobenze	1.674	1.694	1.615	1.568	1.516	1.501	1.447	1.574	5.85
15) Benzyl alcohol	1.149	1.158	1.113	1.104	1.047	1.068	1.046	1.098	4.18
16)P bis(2-chloroisopr	2.229	2.155	1.977	1.888	1.746	1.688	1.558	1.892	13.04
17)P 2-Methylphenol	1.588	1.537	1.479	1.451	1.371	1.329	1.296	1.436	7.57
18)P Acetophenone	2.260	2.218	2.177	2.151	2.083	2.082	2.097	2.153	3.26
19)P Hexachloroethane	0.706	0.677	0.665	0.684	0.641	0.636	0.614	0.660	4.81
20)P N-Nitroso-di-n-pr	1.043	1.039	0.960	0.949	0.908	0.897	0.863	0.951	7.28
21)P 3&4-Methylphenol	1.646	1.630	1.527	1.492	1.428	1.403	1.366	1.499	7.28
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.430	0.412	0.405	0.388	0.382	0.381	0.376	0.396	5.02
24)P Nitrobenzene	0.423	0.406	0.391	0.375	0.369	0.366	0.358	0.384	6.08
25)P Isophorone	0.765	0.744	0.717	0.681	0.684	0.681	0.685	0.708	4.89
26)P 2-Nitrophenol	0.230	0.220	0.219	0.212	0.212	0.212	0.209	0.216	3.37
27)P 2,4-Dimethylpheno	0.438	0.426	0.407	0.389	0.387	0.376	0.368	0.399	6.49
28)P bis(2-Chloroethox	0.471	0.446	0.436	0.421	0.408	0.411	0.399	0.427	5.89
29) Benzoic Acid	0.263	0.310	0.351	0.365	0.367	0.329		0.331	12.09
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9955									
Response Ratio = 0.00000 + 0.39285 *A + -0.02856 *A^2									
30)P 2,4-Dichloropheno	0.321	0.311	0.302	0.291	0.284	0.273	0.270	0.293	6.53
31) 1,2,4-Trichlorobe	0.374	0.351	0.339	0.325	0.316	0.317	0.304	0.332	7.22
32)P Naphthalene	1.235	1.174	1.140	1.080	1.059	1.054	1.012	1.108	7.08
33)P 4-Chloroaniline	0.502	0.484	0.474	0.448	0.433	0.429	0.406	0.454	7.54
34) 2,6-Dichloropheno	0.312	0.301	0.287	0.275	0.267	0.260	0.248	0.278	8.13
35)P Hexachlorobutadie	0.191	0.179	0.171	0.165	0.158	0.160	0.152	0.168	7.94
36)P Caprolactam	0.132	0.129	0.134	0.129	0.128	0.131	0.131	0.131	1.67
37)P 4-Chloro-3-methyl	0.351	0.357	0.344	0.330	0.332	0.328	0.327	0.338	3.62
38)P 2-Methylnaphthale	0.793	0.753	0.728	0.700	0.680	0.680	0.661	0.714	6.59
39) 1-Methylnaphthale	0.727	0.692	0.669	0.647	0.628	0.627	0.607	0.657	6.43

Initial Calibration Summary

Job Number: F97561 **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

40)P 1,2,4,5-Tetrachlo	0.318	0.315	0.298	0.283	0.278	0.280	0.271	0.292	6.41
41) I Acenaphthene-d10	----------ISTD----------								
42)P Hexachlorocyclope	0.349	0.367	0.378	0.387	0.389	0.396	0.387	0.379	4.21
43)P 2,4,6-Trichloroph	0.466	0.448	0.441	0.434	0.420	0.425	0.423	0.437	3.75
44)P 2,4,5-Trichloroph	0.453	0.456	0.441	0.443	0.437	0.440	0.433	0.443	1.87
45)S 2-Fluorobiphenyl	1.526	1.462	1.416	1.389	1.367	1.346	1.303	1.401	5.33
46)P 1,1'-Biphenyl	1.757	1.669	1.607	1.506	1.455	1.432	1.347	1.539	9.40
47)P 2-Chloronaphthale	1.328	1.246	1.225	1.177	1.125	1.110	1.075	1.184	7.49
48)P 2-Nitroaniline	0.399	0.394	0.391	0.398	0.399	0.405	0.403	0.398	1.14
49) p-Dinitrobenzene	0.239	0.234	0.252	0.262	0.262	0.264	0.267	0.254	5.08
50)P Acenaphthylene	2.222	2.079	2.017	2.046	2.024	1.992	1.944	2.046	4.32
51)P Dimethylphthalate	1.506	1.444	1.422	1.392	1.346	1.369	1.305	1.398	4.77
52) m-Dinitrobenzene	0.247	0.256	0.259	0.261	0.263	0.260	0.259	0.258	2.07
53)P 2,6-Dinitrotoluen	0.329	0.328	0.325	0.327	0.326	0.333	0.336	0.329	1.26
54) o-Dinitrobenzene	0.199	0.194	0.193	0.197	0.188	0.193	0.193	0.194	1.83
55)P Acenaphthene	1.331	1.271	1.250	1.238	1.202	1.209	1.181	1.240	4.08
56)P 3-Nitroaniline	0.404	0.408	0.401	0.409	0.404	0.410	0.423	0.408	1.73
57)P 2,4-Dinitrophenol			0.163	0.208	0.215	0.231	0.241	0.211	14.29
58)P Dibenzofuran	1.783	1.733	1.671	1.661	1.626	1.627	1.598	1.671	3.94
59)P 2,4-Dinitrotoluen	0.424	0.423	0.436	0.436	0.435	0.440	0.447	0.434	2.01
60)P 4-Nitrophenol	0.207	0.220	0.219	0.225	0.225	0.233	0.232	0.223	3.94
61)P 2,3,4,6-Tetrachlo	0.349	0.330	0.334	0.329	0.324	0.329	0.325	0.332	2.56
62)P Fluorene	1.456	1.385	1.366	1.360	1.336	1.322	1.313	1.363	3.55
63)P 4-Chlorophenyl-ph	0.695	0.662	0.636	0.622	0.610	0.598	0.581	0.629	6.22
64)P Diethylphthalate	1.508	1.450	1.392	1.389	1.352	1.333	1.293	1.388	5.21
65)P 4-Nitroaniline	0.396	0.377	0.390	0.397	0.395	0.404	0.413	0.396	2.83
66) I Phenanthrene-d10	----------ISTD----------								
67)P 4,6-Dinitro-2-met	0.093	0.124	0.143	0.157	0.158	0.161	0.166	0.143	18.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.14173 *A + 0.01005 *A^2									
68)P n-Nitrosodiphenyl	0.596	0.610	0.567	0.558	0.549	0.546	0.537	0.566	4.82
69) 1,2-Diphenylhydra	0.917	0.861	0.920	0.911	0.886	0.881	0.855	0.890	3.00
70)S 2,4,6-Tribromophe	0.116	0.114	0.110	0.107	0.107	0.104	0.103	0.109	4.37
71)P 4-Bromophenyl-phe	0.228	0.225	0.214	0.211	0.205	0.205	0.203	0.213	4.77
72)P Hexachlorobenzene	0.255	0.241	0.233	0.230	0.226	0.224	0.222	0.233	5.06
73) Simazine	0.104	0.102	0.100	0.100	0.099	0.101	0.100	0.101	1.71
74)P Atrazine	0.216	0.227	0.213	0.211	0.208	0.208	0.204	0.213	3.58
75)P Pentachlorophenol	0.140	0.150	0.161	0.159	0.160	0.164	0.162	0.157	5.42
76)P Phenanthrene	1.265	1.244	1.170	1.141	1.122	1.112	1.095	1.164	5.70
77)P Anthracene	1.300	1.243	1.193	1.160	1.155	1.147	1.126	1.189	5.21
78)P Carbazole	1.127	1.074	1.029	1.009	0.991	0.990	0.977	1.028	5.29
79)P Di-n-butylphthala	1.293	1.312	1.272	1.248	1.235	1.243	1.229	1.262	2.50
80)P Fluoranthene	1.115	1.103	1.055	1.045	1.030	1.039	1.040	1.061	3.17
81) I Chrysene-d12	----------ISTD----------								
82) Benzidine	0.750	0.732	0.747	0.724	0.681	0.628	0.570	0.690	9.90
83)P Pyrene	1.463	1.420	1.358	1.349	1.324	1.320	1.324	1.365	4.04
84)S Terphenyl-d14	0.993	0.951	0.959	0.938	0.932	0.933	0.921	0.947	2.53
85)P Butylbenzylphthal	0.607	0.615	0.638	0.640	0.644	0.642	0.647	0.633	2.47
86)P 3,3'-Dichlorobenz	0.437	0.408	0.432	0.444	0.441	0.431	0.416	0.430	3.13
87)P Benzo[a]anthracen	1.160	1.124	1.109	1.133	1.129	1.122	1.123	1.129	1.39
88)P Chrysene	1.104	1.066	1.053	1.060	1.037	1.042	1.030	1.056	2.32
89)P bis(2-Ethylhexyl)	0.785	0.800	0.812	0.828	0.829	0.832	0.835	0.817	2.32
90) I Perylene-d12	----------ISTD----------								
91)P Di-n-octylphthala	1.217	1.309	1.419	1.483	1.457	1.514	1.508	1.415	7.90
92)P Benzo[b]fluoranth	1.112	1.125	1.118	1.116	1.145	1.159	1.156	1.133	1.76

Initial Calibration Summary

Job Number: F97561 **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

93)P	Benzo[k]fluoranth	1.226	1.267	1.203	1.196	1.132	1.138	1.136	1.185	4.40
94)P	Benzo[a]pyrene	1.047	1.100	1.100	1.091	1.090	1.121	1.117	1.095	2.22
95)P	Indeno[1,2,3-cd]p	0.769	0.825	0.854	0.893	0.903	0.937	0.948	0.876	7.30
96)P	Dibenz[a,h]anthra	0.840	0.885	0.923	0.951	0.927	0.958	0.955	0.920	4.73
97)P	Benzo[g,h,i]peryl	1.015	1.013	1.046	1.029	1.007	1.031	1.022	1.023	1.29

(#) = Out of Range

8270d.m Wed Oct 10 09:49:01 2012

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004471.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\T004471.D Vial: 12
Acq On : 9 Oct 2012 7:32 pm Operator: fouads
Sample : icv227-50 Inst : MSBNA06
Misc : op43453,st227,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:02:20 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	4.15
2		1,4-Dioxane	50.000	45.072	9.9	88	0.01	1.58
3		N-nitrosodimethylamine	50.000	45.577	8.8	90	0.00	1.91
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	51.526	-3.1	98	0.00	3.83
		----------	Amount	Calc.	%Drift		----------	
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	45.363	9.3	88	0.00	4.00
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	44.520	11.0	87	-0.01	3.96
11	P	2-Chlorophenol	50.000	46.583	6.8	92	0.00	4.02
12		1,3-Dichlorobenzene	50.000	46.283	7.4	93	0.00	4.12
13		1,4-Dichlorobenzene	50.000	47.029	5.9	93	0.00	4.16
14		1,2-Dichlorobenzene	50.000	47.976	4.0	94	0.00	4.30
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	44.716	10.6	88	0.00	4.40
17	P	2-Methylphenol	50.000	45.774	8.5	89	0.00	4.39
18	P	Acetophenone	50.000	47.306	5.4	93	0.00	4.47
19	P	Hexachloroethane	50.000	46.897	6.2	89	0.00	4.52
20	P	N-Nitroso-di-n-propylamin	50.000	43.385	13.2	85	-0.01	4.49
21	P	3&4-Methylphenol	100.000	86.232	13.8	88	0.00	4.50
22	I	Naphthalene-d8	40.000	40.000	0.0	94	0.00	5.11
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	47.036	5.9	90	0.00	4.59
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol	50.000	46.490	7.0	89	0.00	4.83
27	P	2,4-Dimethylphenol	50.000	41.344	17.3	80	0.00	4.88
28	P	bis(2-Chloroethoxy)methan	50.000	45.581	8.8	87	0.00	4.95
29		Benzoic Acid	100.000	89.408	10.6	0	0.00	5.03
30	P	2,4-Dichlorophenol	50.000	44.966	10.1	85	0.00	5.02
31		1,2,4-Trichlorobenzene	50.000	46.969	6.1	90	0.00	5.09
32	P	Naphthalene	50.000	47.338	5.3	91	0.00	5.14
33	P	4-Chloroaniline		----------NA----------				
34		2,6-Dichlorophenol	50.000	47.901	4.2	91	0.00	5.22
35	P	Hexachlorobutadiene	50.000	47.623	4.8	91	0.00	5.31
36	P	Caprolactam	50.000	45.693	8.6	87	-0.03	5.52
37	P	4-Chloro-3-methylphenol	50.000	45.449	9.1	88	0.00	5.69
38	P	2-Methylnaphthalene		----------NA----------				

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004471.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

39		1-Methylnaphthalene	50.000	46.655	6.7	89	0.00	5.91
40	P	1,2,4,5-Tetrachlorobenzen	50.000	44.909	10.2	87	0.00	6.02
41	I	Acenaphthene-d10	40.000	40.000	0.0	95	0.00	7.08
42	P	Hexachlorocyclopentadiene	50.000	48.968	2.1	91	0.00	6.05
43	P	2,4,6-Trichlorophenol	50.000	45.022	10.0	86	0.00	6.15
44	P	2,4,5-Trichlorophenol	50.000	46.350	7.3	88	0.00	6.19
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	45.695	8.6	89	0.00	6.34
47	P	2-Chloronaphthalene	50.000	46.618	6.8	89	0.00	6.33
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene	50.000	45.931	8.1	87	0.00	6.87
51	P	Dimethylphthalate	50.000	44.761	10.5	86	-0.01	6.84
52		m-Dinitrobenzene		----------NA----------				
53	P	2,6-Dinitrotoluene	50.000	43.054	13.9	82	-0.01	6.91
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene	50.000	46.433	7.1	89	-0.01	7.12
56	P	3-Nitroaniline		----------NA----------				
57	P	2,4-Dinitrophenol	100.000	83.688	16.3	66	-0.01	7.22
58	P	Dibenzofuran		----------NA----------				
59	P	2,4-Dinitrotoluene	50.000	44.527	10.9	84	-0.01	7.46
60	P	4-Nitrophenol	100.000	90.213	9.8	78	-0.01	7.40
61	P	2,3,4,6-Tetrachlorophenol	50.000	43.979	12.0	84	0.00	7.63
62	P	Fluorene	50.000	45.845	8.3	87	-0.01	7.87
63	P	4-Chlorophenyl-phenylethe	50.000	45.651	8.7	88	0.00	7.92
64	P	Diethylphthalate	50.000	45.052	9.9	86	-0.01	7.90
65	P	4-Nitroaniline		----------NA----------				
66	I	Phenanthrene-d10	40.000	40.000	0.0	89	0.00	9.37
		----------	Amount	Calc.	%Drift	----------		
67	P	4,6-Dinitro-2-methylpheno	100.000	94.261	5.7	78	-0.02	8.07
		----------	Amount	Calc.	%Drift	----------		
68	P	n-Nitrosodiphenylamine	50.000	47.506	7.0	71	-0.02	8.13
69		1,2-Diphenylhydrazine	50.000	48.146	3.7	84	0.00	8.16
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether	50.000	47.886	4.2	86	0.00	8.69
72	P	Hexachlorobenzene	50.000	46.376	7.2	83	0.00	8.88
73		Simazine		----------NA----------				
74	P	Atrazine	50.000	46.947	6.1	84	-0.02	9.15
75	P	Pentachlorophenol	100.000	94.236	5.8	75	0.00	9.21
76	P	Phenanthrene	50.000	48.453	3.1	88	0.00	9.41
77	P	Anthracene	50.000	47.496	5.0	86	-0.01	9.48
78	P	Carbazole		----------NA----------				
79	P	Di-n-butylphthalate	50.000	45.664	8.7	82	0.00	10.75
80	P	Fluoranthene	50.000	45.810	8.4	83	0.00	11.51
81	I	Chrysene-d12	40.000	40.000	0.0	87	-0.01	14.17
82		Benzidine		----------NA----------				
83	P	Pyrene	50.000	50.136	-0.3	89	-0.01	11.89
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate	50.000	47.469	5.1	82	0.00	13.48
86	P	3,3'-Dichlorobenzidine		----------NA----------				
87	P	Benzo[a]anthracene	50.000	47.691	4.6	83	-0.01	14.14
88	P	Chrysene	50.000	48.283	3.4	84	-0.02	14.21
89	P	bis(2-Ethylhexyl)phthalat	50.000	46.690	6.6	81	0.00	14.71
90	I	Perylene-d12	40.000	40.000	0.0	85	0.00	16.63

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004471.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

91	P	Di-n-octylphthalate	50.000	49.044	1.9	79	0.00	15.82
92	P	Benzo[b]fluoranthene	50.000	50.799	-1.6	87	-0.02	16.03
93	P	Benzo[k]fluoranthene	50.000	48.443	3.1	81	-0.02	16.08
94	P	Benzo[a]pyrene	50.000	46.659	6.7	79	-0.02	16.53
95	P	Indeno[1,2,3-cd]pyrene	50.000	50.158	-0.3	83	-0.01	18.19
96	P	Dibenz[a,h]anthracene	50.000	50.946	-1.9	83	-0.02	18.25
97	P	Benzo[g,h,i]perylene	50.000	49.586	0.8	83	-0.02	18.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Wed Oct 10 09:36:58 2012

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004472.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\T004472.D Vial: 13
Acq On : 9 Oct 2012 8:00 pm Operator: fouads
Sample : icv227-50 Inst : MSBNA06
Misc : op43453,st227,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:02:20 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.00	4.15
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	50.453	-0.9	108	0.00	1.89
		---------- Amount	Calc.	%Drift	----------			
5	P	Benzaldehyde	25.000	26.182	-4.7	105	0.00	3.83
		---------- Amount	Calc.	%Drift	----------			
6		Aniline	50.000	43.828	12.3	100	0.00	3.94
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	49.368	1.3	110	0.00	4.28
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	110	0.00	5.11
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	46.346	7.3	106	0.00	4.76
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	46.398	7.2	103	0.00	5.21
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004472.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	2-Methylnaphthalene	50.000	48.248	3.5	108	0.00	5.79
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	110	0.00	7.08
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	49.349	1.3	109	0.00	6.52
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene		----------NA----------				
51	P	Dimethylphthalate		----------NA----------				
52		m-Dinitrobenzene	50.000	48.552	2.9	106	-0.01	6.82
53	P	2,6-Dinitrotoluene		----------NA----------				
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene		----------NA----------				
56	P	3-Nitroaniline	50.000	47.202	5.6	104	-0.01	7.09
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	Dibenzofuran	50.000	50.787	-1.6	112	-0.01	7.35
59	P	2,4-Dinitrotoluene		----------NA----------				
60	P	4-Nitrophenol		----------NA----------				
61	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
62	P	Fluorene		----------NA----------				
63	P	4-Chlorophenyl-phenylethe		----------NA----------				
64	P	Diethylphthalate		----------NA----------				
65	P	4-Nitroaniline	50.000	50.854	-1.7	112	-0.03	8.00
66	I	Phenanthrene-d10	40.000	40.000	0.0	108	0.00	9.37
		---------- Amount		Calc.	%Drift	----------		
67	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		---------- Amount		Calc.	%Drift	----------		
68	P	n-Nitrosodiphenylamine		----------NA----------				
69		1,2-Diphenylhydrazine		----------NA----------				
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether		----------NA----------				
72	P	Hexachlorobenzene		----------NA----------				
73		Simazine	50.000	66.675	-33.3#	146	-0.02	9.07
74	P	Atrazine		----------NA----------				
75	P	Pentachlorophenol		----------NA----------				
76	P	Phenanthrene		----------NA----------				
77	P	Anthracene		----------NA----------				
78	P	Carbazole	50.000	50.691	-1.4	112	0.00	9.83
79	P	Di-n-butylphthalate		----------NA----------				
80	P	Fluoranthene		----------NA----------				
81	I	Chrysene-d12	40.000	40.000	0.0	110	-0.02	14.16
82		Benzidine	50.000	56.699	-13.4	118	0.00	11.89
83	P	Pyrene		----------NA----------				
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate		----------NA----------				
86	P	3,3'-Dichlorobenzidine	50.000	40.871	18.3	87	-0.01	14.26
87	P	Benzo[a]anthracene		----------NA----------				
88	P	Chrysene		----------NA----------				
89	P	bis(2-Ethylhexyl)phthalat		----------NA----------				

Initial Calibration Verification

Job Number: F97561 **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004472.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

90	I	Perylene-d12	40.000	40.000	0.0	108	0.00	16.63	
91	P	Di-n-octylphthalate		----------NA----------					
92	P	Benzo[b]fluoranthene		----------NA----------					
93	P	Benzo[k]fluoranthene		----------NA----------					
94	P	Benzo[a]pyrene		----------NA----------					
95	P	Indeno[1,2,3-cd]pyrene		----------NA----------					
96	P	Dibenz[a,h]anthracene		----------NA----------					
97	P	Benzo[g,h,i]perylene		----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Wed Oct 10 09:42:08 2012

Continuing Calibration Summary

Job Number: F97561 **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\101112\T004528.D Vial: 2
Acq On : 11 Oct 2012 11:27 am Operator: fouads
Sample : cc227-50 Inst : MSBNA06
Misc : op43453,st230,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 11:50:46 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	150	0.00	4.10
2		1,4-Dioxane	0.712	0.732	-2.8	154	-0.04	1.52
3		N-nitrosodimethylamine	0.650	0.660	-1.5	153	-0.04	1.85
4		Pyridine	1.471	1.641	-11.6	159	-0.04	1.83
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	49.415	1.2	145	0.00	3.78
			AvgRF	CCRF	%Dev			
6		Aniline	2.285	2.316	-1.4	154	0.00	3.89
7	S	2-Fluorophenol	1.467	1.540	-5.0	157	-0.02	3.17
8	P	bis(2-Chloroethyl)ether	1.520	1.569	-3.2	154	0.00	3.95
9	S	Phenol-d5	1.775	1.773	0.1	151	0.00	3.92
10	P	Phenol	1.974	1.812	8.2	137	0.00	3.92
11	P	2-Chlorophenol	1.620	1.679	-3.6	156	0.00	3.97
12		1,3-Dichlorobenzene	1.671	1.712	-2.5	157	0.00	4.07
13		1,4-Dichlorobenzene	1.674	1.698	-1.4	154	0.00	4.11
14		1,2-Dichlorobenzene	1.574	1.588	-0.9	152	0.00	4.25
15		Benzyl alcohol	1.098	1.120	-2.0	152	0.00	4.24
16	P	bis(2-chloroisopropyl)eth	1.892	1.741	8.0	138	0.00	4.35
17	P	2-Methylphenol	1.436	1.444	-0.6	149	0.00	4.34
18	P	Acetophenone	2.153	2.185	-1.5	152	0.00	4.42
19	P	Hexachloroethane	0.660	0.663	-0.5	145	0.00	4.47
20	P	N-Nitroso-di-n-propylamin	0.951	0.918	3.5	145	0.00	4.46
21	P	3&4-Methylphenol	1.499	1.474	1.7	148	0.00	4.45
22	I	Naphthalene-d8	1.000	1.000	0.0	149	0.00	5.06
23	S	Nitrobenzene-d5	0.396	0.398	-0.5	153	0.00	4.52
24	P	Nitrobenzene	0.384	0.383	0.3	152	0.00	4.54
25	P	Isophorone	0.708	0.711	-0.4	155	0.00	4.72
26	P	2-Nitrophenol	0.216	0.226	-4.6	158	0.00	4.78
27	P	2,4-Dimethylphenol	0.399	0.402	-0.8	154	0.00	4.83
28	P	bis(2-Chloroethoxy)methan	0.427	0.428	-0.2	151	0.00	4.90
			Amount	Calc.	%Drift			
29		Benzoic Acid	50.000	46.283	7.4	135	0.01	4.97
			AvgRF	CCRF	%Dev			
30	P	2,4-Dichlorophenol	0.293	0.288	1.7	147	0.00	4.97
31		1,2,4-Trichlorobenzene	0.332	0.336	-1.2	153	0.00	5.03
32	P	Naphthalene	1.108	1.117	-0.8	154	0.00	5.08
33	P	4-Chloroaniline	0.454	0.448	1.3	148	0.00	5.16

Continuing Calibration Summary

Job Number: F97561 **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

34		2,6-Dichlorophenol	0.278	0.277	0.4	150	0.00	5.16
35	P	Hexachlorobutadiene	0.168	0.166	1.2	150	0.00	5.25
36	P	Caprolactam	0.131	0.137	-4.6	158	0.00	5.49
37	P	4-Chloro-3-methylphenol	0.338	0.346	-2.4	156	0.00	5.64
38	P	2-Methylnaphthalene	0.714	0.719	-0.7	153	0.00	5.73
39		1-Methylnaphthalene	0.657	0.658	-0.2	151	0.00	5.84
40	P	1,2,4,5-Tetrachlorobenzen	0.292	0.290	0.7	153	0.00	5.96
41	I	Acenaphthene-d10	1.000	1.000	0.0	151	0.00	7.01
42	P	Hexachlorocyclopentadiene	0.379	0.394	-4.0	154	0.00	5.99
43	P	2,4,6-Trichlorophenol	0.437	0.444	-1.6	154	0.00	6.08
44	P	2,4,5-Trichlorophenol	0.443	0.460	-3.8	157	0.00	6.13
45	S	2-Fluorobiphenyl	1.401	1.405	-0.3	153	0.00	6.18
46	P	1,1'-Biphenyl	1.539	1.498	2.7	150	0.00	6.28
47	P	2-Chloronaphthalene	1.184	1.177	0.6	151	0.00	6.27
48	P	2-Nitroaniline	0.398	0.413	-3.8	157	0.00	6.46
49		p-Dinitrobenzene	0.254	0.272	-7.1	157	0.00	6.61
50	P	Acenaphthylene	2.046	2.075	-1.4	153	0.00	6.80
51	P	Dimethylphthalate	1.398	1.384	1.0	150	0.00	6.78
52		m-Dinitrobenzene	0.258	0.270	-4.7	156	0.00	6.76
53	P	2,6-Dinitrotoluene	0.329	0.344	-4.6	158	0.00	6.85
54		o-Dinitrobenzene	0.194	0.195	-0.5	149	0.00	6.93
55	P	Acenaphthene	1.240	1.249	-0.7	152	0.00	7.06
56	P	3-Nitroaniline	0.408	0.422	-3.4	156	0.00	7.02
57	P	2,4-Dinitrophenol	0.211	0.228	-8.1	166	0.00	7.16
58	P	Dibenzofuran	1.671	1.700	-1.7	154	0.00	7.28
59	P	2,4-Dinitrotoluene	0.434	0.454	-4.6	157	0.00	7.39
60	P	4-Nitrophenol	0.223	0.238	-6.7	160	0.00	7.33
61	P	2,3,4,6-Tetrachlorophenol	0.332	0.341	-2.7	156	0.00	7.55
62	P	Fluorene	1.363	1.400	-2.7	155	0.00	7.79
63	P	4-Chlorophenyl-phenylethe	0.629	0.626	0.5	152	0.00	7.85
64	P	Diethylphthalate	1.388	1.380	0.6	150	0.00	7.84
65	P	4-Nitroaniline	0.396	0.412	-4.0	157	0.00	7.94
66	I	Phenanthrene-d10	1.000	1.000	0.0	147	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
67	P	4,6-Dinitro-2-methylpheno	50.000	53.997	-8.0	157	0.00	8.01
		----------	AvgRF	CCRF	%Dev		----------	
68	P	n-Nitrosodiphenylamine	0.566	0.593	-4.8	156	0.00	8.07
69		1,2-Diphenylhydrazine	0.890	0.945	-6.2	152	0.00	8.09
70	S	2,4,6-Tribromophenol	0.109	0.114	-4.6	157	-0.01	8.21
71	P	4-Bromophenyl-phenylether	0.213	0.222	-4.2	154	0.00	8.62
72	P	Hexachlorobenzene	0.233	0.241	-3.4	154	0.00	8.80
73		Simazine	0.101	0.103	-2.0	152	0.00	9.00
74	P	Atrazine	0.213	0.218	-2.3	152	0.00	9.09
75	P	Pentachlorophenol	0.157	0.171	-8.9	158	0.00	9.14
76	P	Phenanthrene	1.164	1.199	-3.0	154	0.00	9.33
77	P	Anthracene	1.189	1.244	-4.6	157	0.00	9.40
78	P	Carbazole	1.028	1.065	-3.6	155	0.00	9.74
79	P	Di-n-butylphthalate	1.262	1.330	-5.4	156	0.01	10.66
80	P	Fluoranthene	1.061	1.119	-5.5	157	0.00	11.42
81	I	Chrysene-d12	1.000	1.000	0.0	150	0.00	14.08
82		Benzidine	0.690	0.576	16.5	119	-0.01	11.80
83	P	Pyrene	1.365	1.403	-2.8	156	-0.01	11.80
84	S	Terphenyl-d14	0.947	0.966	-2.0	155	0.00	12.28
85	P	Butylbenzylphthalate	0.633	0.675	-6.6	158	0.00	13.39
86	P	3,3'-Dichlorobenzidine	0.430	0.476	-10.7	161	0.00	14.17

Continuing Calibration Summary

Job Number: F97561 **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

87	P	Benzo[a]anthracene	1.129	1.176	-4.2	156	0.00	14.04
88	P	Chrysene	1.056	1.079	-2.2	153	0.00	14.12
89	P	bis(2-Ethylhexyl)phthalat	0.817	0.864	-5.8	157	0.00	14.62
90	I	Perylene-d12	1.000	1.000	0.0	151	0.00	16.53
91	P	Di-n-octylphthalate	1.415	1.602	-13.2	163	0.00	15.73
92	P	Benzo[b]fluoranthene	1.133	1.192	-5.2	161	0.00	15.94
93	P	Benzo[k]fluoranthene	1.185	1.201	-1.4	151	-0.01	15.98
94	P	Benzo[a]pyrene	1.095	1.165	-6.4	161	-0.01	16.43
95	P	Indeno[1,2,3-cd]pyrene	0.876	1.014	-15.8	171	0.00	18.09
96	P	Dibenz[a,h]anthracene	0.920	1.017	-10.5	161	0.00	18.16
97	P	Benzo[g,h,i]perylene	1.023	1.066	-4.2	156	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Fri Oct 12 11:29:19 2012

7.7.4

7

Initial Calibration Summary

Job Number: F97561 **Sample:** SW3290-ICC3290
Account: CSXT CSX Transportation **Lab FileID:** W067842.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA01

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Initial Calibration

Calibration Files
L1 =W067839.D L2 =W067840.D L3 =W067841.D L4 =W067842.D
L5 =W067843.D L6 =W067844.D L7 =W067845.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.370	0.342	0.370	0.345	0.367	0.373	0.364	0.361	3.50
3)P Naphthalene	1.260	1.129	1.157	1.067	1.127	1.098	1.000	1.120	7.19
4)P 2-Methylnaphthale	0.786	0.731	0.782	0.716	0.759	0.739	0.671	0.740	5.45
5)P 1-Methylnaphthale	0.759	0.682	0.732	0.668	0.707	0.687	0.635	0.696	5.93
6) I Acenaphthene-d10	ISTD								
7)S 2-Fluorobiphenyl	1.622	1.445	1.445	1.349	1.415	1.356	1.279	1.416	7.68
8)P Acenaphthylene	2.080	2.234	1.962	1.821	1.917	1.849	1.658	1.932	9.65
9)P Acenaphthene	1.370	1.230	1.255	1.129	1.193	1.164	1.060	1.200	8.25
10)P Fluorene	1.521	1.388	1.410	1.322	1.395	1.394	1.304	1.391	5.07
11) I Phenanthrene-d10	ISTD								
12)S 2,4,6-Tribromophe	0.063	0.063	0.071	0.068	0.073	0.075	0.074	0.070	7.03
13)P Pentachlorophenol	0.040	0.054	0.083	0.094	0.111	0.116	0.116	0.088	34.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
Response Ratio = 0.00000 + 0.10314 *A + 0.00053 *A^2									
14)P Phenanthrene	1.415	1.247	1.261	1.140	1.168	1.124	1.018	1.196	10.55
15)P Anthracene	1.310	1.171	1.244	1.151	1.206	1.218	1.121	1.203	5.24
16)P Fluoranthene	1.498	1.331	1.354	1.261	1.282	1.250	1.123	1.300	8.81
17) I Chrysene-d12	ISTD								
18)P Pyrene	1.945	1.775	1.761	1.587	1.623	1.552	1.393	1.662	10.82
19)S Terphenyl-d14	0.985	0.913	0.912	0.811	0.855	0.863	0.776	0.873	8.00
20)P Benzo[a]anthracen	1.405	1.232	1.278	1.216	1.313	1.316	1.285	1.292	4.84
21)P Chrysene	1.534	1.356	1.362	1.273	1.344	1.362	1.289	1.360	6.26
22) I Perylene-d12	ISTD								
23)P Benzo[b]fluoranth	1.770	1.749	1.862	1.776	1.850	1.971	1.833	1.830	4.14
24)P Benzo[k]fluoranth	1.729	1.531	1.620	1.591	1.726	1.646	1.688	1.647	4.43
25)P Benzo[a]pyrene	1.195	1.152	1.277	1.244	1.372	1.417	1.376	1.290	7.80
26)P Indeno[1,2,3-cd]p	0.678	0.645	0.743	0.772	0.827	0.893	0.923	0.783	13.33
27)P Dibenz[a,h]anthra	0.617	0.608	0.706	0.723	0.792	0.836	0.902	0.741	14.81
28)P Benzo[g,h,i]peryl	0.906	0.810	0.923	0.923	0.983	1.027	1.019	0.941	8.04

(#) = Out of Range

simpahf.m Mon Oct 08 10:26:54 2012

Initial Calibration Verification

Job Number: F97561 **Sample:** SW3290-ICV3290
Account: CSXT CSX Transportation **Lab FileID:** W067846.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100512\W067846.D Vial: 9
Acq On : 5 Oct 2012 5:45 pm Operator: mayrag
Sample : icv3290-4 Inst : MSBNA01
Misc : op42714,sw3290,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	77	0.00	4.58
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene	10.000	9.628	3.7	78	0.00	4.59
4	P	2-Methylnaphthalene	10.000	9.276	7.2	74	0.00	5.19
5	P	1-Methylnaphthalene	10.000	9.397	6.0	76	0.00	5.29
6	I	Acenaphthene-d10	4.000	4.000	0.0	79	0.00	6.12
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene	10.000	9.327	6.7	78	0.00	5.98
9	P	Acenaphthene	10.000	9.680	3.2	81	0.00	6.14
10	P	Fluorene	10.000	9.660	3.4	80	0.00	6.59
11	I	Phenanthrene-d10	4.000	4.000	0.0	77	0.00	7.40
12	S	2,4,6-Tribromophenol		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
13	P	Pentachlorophenol		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
14	P	Phenanthrene	10.000	9.837	1.6	80	0.00	7.42
15	P	Anthracene	5.000	4.929	1.4	80	0.00	7.45
16	P	Fluoranthene	10.000	9.866	1.3	79	0.00	8.48
17	I	Chrysene-d12	4.000	4.000	0.0	77	0.00	9.96
18	P	Pyrene	10.000	9.776	2.2	79	0.00	8.67
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene	5.000	4.638	7.2	76	0.00	9.94
21	P	Chrysene	5.000	4.781	4.4	79	0.00	9.99
22	I	Perylene-d12	4.000	4.000	0.0	78	0.00	12.12
23	P	Benzo[b]fluoranthene	5.000	4.814	3.7	78	0.00	11.50
24	P	Benzo[k]fluoranthene	5.000	4.765	4.7	77	0.00	11.54
25	P	Benzo[a]pyrene	5.000	4.837	3.3	79	0.00	12.02
26	P	Indeno[1,2,3-cd]pyrene	5.000	4.686	6.3	74	0.00	14.03
27	P	Dibenz[a,h]anthracene	5.000	4.687	6.3	75	0.00	14.09
28	P	Benzo[g,h,i]perylene	5.000	4.875	2.5	78	-0.01	14.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Mon Oct 08 10:22:50 2012

Initial Calibration Verification

Job Number: F97561 **Sample:** SW3290-ICV3290
Account: CSXT CSX Transportation **Lab FileID:** W067847.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100512\W067847.D Vial: 10
Acq On : 5 Oct 2012 6:06 pm Operator: mayrag
Sample : icv3290-4,pcp Inst : MSBNA01
Misc : op42714,sw3290,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	84	0.00	4.58
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene		----------NA----------				
4	P	2-Methylnaphthalene		----------NA----------				
5	P	1-Methylnaphthalene		----------NA----------				
6	I	Acenaphthene-d10	4.000	4.000	0.0	84	0.00	6.12
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene		----------NA----------				
9	P	Acenaphthene		----------NA----------				
10	P	Fluorene		----------NA----------				
11	I	Phenanthrene-d10	4.000	4.000	0.0	82	0.00	7.40
12	S	2,4,6-Tribromophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	23.713	5.1	88	0.00	7.30
		----------	Amount	Calc.	%Drift	----------		
14	P	Phenanthrene		----------NA----------				
15	P	Anthracene		----------NA----------				
16	P	Fluoranthene		----------NA----------				
17	I	Chrysene-d12	4.000	4.000	0.0	77	0.00	9.96
18	P	Pyrene		----------NA----------				
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene		----------NA----------				
21	P	Chrysene		----------NA----------				
22	I	Perylene-d12	4.000	4.000	0.0	74	0.00	12.12
23	P	Benzo[b]fluoranthene		----------NA----------				
24	P	Benzo[k]fluoranthene		----------NA----------				
25	P	Benzo[a]pyrene		----------NA----------				
26	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
27	P	Dibenz[a,h]anthracene		----------NA----------				
28	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Mon Oct 08 10:22:52 2012

Continuing Calibration Summary

Job Number: F97561 **Sample:** SW3296-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W067988.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101212\W067988.D Vial: 2
Acq On : 12 Oct 2012 11:21 am Operator: mayrag
Sample : cc3290-5 Inst : MSBNA01
Misc : op42714,sw3296,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 15 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00	4.51
2	S	Nitrobenzene-d5	0.361	0.369	-2.2	113	-0.01	3.92
3	P	Naphthalene	1.120	1.106	1.3	110	0.00	4.52
4	P	2-Methylnaphthalene	0.740	0.738	0.3	109	0.00	5.11
5	P	1-Methylnaphthalene	0.696	0.685	1.6	109	0.01	5.21
6	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	6.04
7	S	2-Fluorobiphenyl	1.416	1.412	0.3	110	0.00	5.45
8	P	Acenaphthylene	1.932	1.918	0.7	110	0.00	5.90
9	P	Acenaphthene	1.200	1.197	0.2	111	0.00	6.06
10	P	Fluorene	1.391	1.390	0.1	110	0.00	6.51
11	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	7.32
12	S	2,4,6-Tribromophenol	0.070	0.075	-7.1	113	-0.01	6.74
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	37.500	34.419	8.2	98	0.00	7.22
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.174	1.8	110	0.00	7.34
15	P	Anthracene	1.203	1.203	0.0	109	0.00	7.38
16	P	Fluoranthene	1.300	1.268	2.5	108	0.00	8.39
17	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	9.84
18	P	Pyrene	1.662	1.673	-0.7	109	0.02	8.59
19	S	Terphenyl-d14	0.873	0.868	0.6	107	0.02	8.75
20	P	Benzo[a]anthracene	1.292	1.301	-0.7	104	0.00	9.83
21	P	Chrysene	1.360	1.344	1.2	105	0.00	9.87
22	I	Perylene-d12	1.000	1.000	0.0	107	0.00	11.96
23	P	Benzo[b]fluoranthene	1.830	1.497	18.2	86	0.00	11.35
24	P	Benzo[k]fluoranthene	1.647	1.727	-4.9	107	0.00	11.39
25	P	Benzo[a]pyrene	1.290	1.373	-6.4	107	0.00	11.86
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.844	-7.8	109	-0.02	13.83
27	P	Dibenz[a,h]anthracene	0.741	0.802	-8.2	108	-0.01	13.90
28	P	Benzo[g,h,i]perylene	0.941	0.978	-3.9	106	-0.02	14.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067843.D simpahf.m Mon Oct 15 11:42:57 2012

Continuing Calibration Summary

Job Number: F97561 **Sample:** SW3297-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W068007.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101512\W068007.D Vial: 2
Acq On : 15 Oct 2012 10:07 am Operator: mayrag
Sample : cc3290-4 Inst : MSBNA01
Misc : op42714,sw3297,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Oct 16 08:42:48 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00	4.51
2	S	Nitrobenzene-d5	0.361	0.371	-2.8	122	-0.01	3.92
3	P	Naphthalene	1.120	1.124	-0.4	119	0.00	4.52
4	P	2-Methylnaphthalene	0.740	0.749	-1.2	118	0.00	5.11
5	P	1-Methylnaphthalene	0.696	0.694	0.3	118	0.01	5.21
6	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	6.04
7	S	2-Fluorobiphenyl	1.416	1.395	1.5	119	0.00	5.45
8	P	Acenaphthylene	1.932	1.858	3.8	118	0.00	5.90
9	P	Acenaphthene	1.200	1.186	1.2	121	0.00	6.06
10	P	Fluorene	1.391	1.341	3.6	117	0.00	6.51
11	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	7.31
12	S	2,4,6-Tribromophenol	0.070	0.072	-2.9	119	0.00	6.74
			Amount	Calc.	%Drift			
13	P	Pentachlorophenol	25.000	22.572	9.7	115	0.00	7.22
			AvgRF	CCRF	%Dev			
14	P	Phenanthrene	1.196	1.199	-0.3	119	0.00	7.34
15	P	Anthracene	1.203	1.174	2.4	115	0.00	7.38
16	P	Fluoranthene	1.300	1.315	-1.2	118	0.01	8.39
17	I	Chrysene-d12	1.000	1.000	0.0	110	0.00	9.84
18	P	Pyrene	1.662	1.679	-1.0	117	0.02	8.58
19	S	Terphenyl-d14	0.873	0.877	-0.5	119	0.02	8.75
20	P	Benzo[a]anthracene	1.292	1.274	1.4	115	0.00	9.82
21	P	Chrysene	1.360	1.312	3.5	113	0.00	9.87
22	I	Perylene-d12	1.000	1.000	0.0	110	0.00	11.95
23	P	Benzo[b]fluoranthene	1.830	1.518	17.0	94	0.00	11.35
24	P	Benzo[k]fluoranthene	1.647	1.577	4.3	109	0.00	11.38
25	P	Benzo[a]pyrene	1.290	1.302	-0.9	116	0.00	11.86
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.802	-2.4	115	0.00	13.83
27	P	Dibenz[a,h]anthracene	0.741	0.738	0.4	113	-0.01	13.89
28	P	Benzo[g,h,i]perylene	0.941	0.927	1.5	111	-0.01	14.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Tue Oct 16 14:18:33 2012

Continuing Calibration Summary

Job Number: F97561 **Sample:** SW3299-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W068053.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101612\W068053.D Vial: 2
Acq On : 16 Oct 2012 10:59 am Operator: mayrag
Sample : cc3290-4 Inst : MSBNA01
Misc : op42714,sw3299,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Oct 17 09:34:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	4.49
2	S	Nitrobenzene-d5	0.361	0.360	0.3	104	0.00	3.91
3	P	Naphthalene	1.120	1.105	1.3	103	0.00	4.51
4	P	2-Methylnaphthalene	0.740	0.727	1.8	101	0.00	5.10
5	P	1-Methylnaphthalene	0.696	0.681	2.2	101	0.00	5.19
6	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	6.03
7	S	2-Fluorobiphenyl	1.416	1.409	0.5	104	0.00	5.44
8	P	Acenaphthylene	1.932	1.918	0.7	105	0.00	5.89
9	P	Acenaphthene	1.200	1.187	1.1	104	0.00	6.05
10	P	Fluorene	1.391	1.368	1.7	103	0.00	6.50
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00	7.31
12	S	2,4,6-Tribromophenol	0.070	0.076	-8.6	109	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	21.437	14.3	95	0.00	7.20
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.192	0.3	102	0.00	7.32
15	P	Anthracene	1.203	1.178	2.1	100	0.00	7.36
16	P	Fluoranthene	1.300	1.305	-0.4	101	0.00	8.38
17	I	Chrysene-d12	1.000	1.000	0.0	96	0.00	9.83
18	P	Pyrene	1.662	1.655	0.4	100	0.02	8.58
19	S	Terphenyl-d14	0.873	0.882	-1.0	104	0.02	8.74
20	P	Benzo[a]anthracene	1.292	1.265	2.1	100	0.00	9.81
21	P	Chrysene	1.360	1.311	3.6	99	0.00	9.86
22	I	Perylene-d12	1.000	1.000	0.0	96	0.00	11.94
23	P	Benzo[b]fluoranthene	1.830	1.617	11.6	87	0.00	11.33
24	P	Benzo[k]fluoranthene	1.647	1.554	5.6	94	0.00	11.37
25	P	Benzo[a]pyrene	1.290	1.340	-3.9	103	0.00	11.84
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.793	-1.3	99	0.00	13.81
27	P	Dibenz[a,h]anthracene	0.741	0.744	-0.4	99	0.00	13.87
28	P	Benzo[g,h,i]perylene	0.941	0.912	3.1	95	0.00	14.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Wed Oct 17 10:49:19 2012

Initial Calibration Summary

Job Number: F97561 **Sample:** SX1244-ICC1244
Account: CSXT CSX Transportation **Lab FileID:** X025741.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Initial Calibration

Calibration Files
5 =X025736.D 10 =X025737.D 25 =X025738.D 50 =X025739.D
60 =X025740.D 75 =X025741.D 100 =X025742.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.533	0.539	0.533	0.525	0.519	0.519	0.497	0.524	2.70
3) N-nitrosodimethyl	0.899	0.919	0.869	0.839	0.815	0.823	0.814	0.854	4.95
4) Pyridine	1.553	1.428	1.396	1.427	1.361	1.424	1.450	1.434	4.16
5)S 2-Fluorophenol	1.341	1.328	1.290	1.222	1.184	1.168	1.136	1.238	6.59
6)P Benzaldehyde	0.990	0.981	0.877	0.594	0.526	0.443		0.735	33.04
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9918									
Response Ratio = 0.00000 + 1.00040 *A + -0.30478 *A^2									
7) Aniline	2.149	2.083	2.094	2.025	1.947	1.943	1.987	2.033	3.88
8)P bis(2-Chloroethyl	1.364	1.325	1.251	1.147	1.088	1.057	0.983	1.174	12.21
9)S Phenol-d5	1.745	1.729	1.588	1.478	1.415	1.369	1.300	1.518	11.49
10)P Phenol	1.780	1.767	1.736	1.568	1.493	1.371	1.366	1.583	11.45
11)P 2-Chlorophenol	1.456	1.496	1.460	1.372	1.298	1.250	1.111	1.349	10.25
12) 1,3-Dichlorobenze	1.590	1.636	1.590	1.518	1.459	1.428	1.366	1.513	6.55
13) 1,4-Dichlorobenze	1.660	1.649	1.608	1.514	1.430	1.411	1.347	1.517	8.25
14) 1,2-Dichlorobenze	1.564	1.589	1.518	1.410	1.362	1.318	1.274	1.434	8.68
15) Benzyl alcohol	0.990	0.966	0.924	0.919	0.857	0.867	0.893	0.917	5.34
16)P 2-Methylphenol	1.333	1.363	1.328	1.280	1.208	1.211	1.207	1.276	5.28
17)P bis(2-chloroisopr	2.691	2.699	2.561	2.384	2.265	2.228	2.145	2.425	9.37
18)P Acetophenone	1.992	1.977	1.914	1.831	1.738	1.732	1.765	1.850	6.02
19)P N-Nitroso-di-n-pr	1.003	1.019	0.974	0.957	0.878	0.884	0.885	0.943	6.36
20)P 3&4-Methylphenol	1.453	1.446	1.402	1.342	1.253	1.260	1.254	1.344	6.72
21)P Hexachloroethane	0.664	0.672	0.649	0.626	0.601	0.587	0.551	0.621	7.10
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.386	0.385	0.385	0.374	0.364	0.363	0.357	0.374	3.23
24)P Nitrobenzene	0.382	0.386	0.374	0.371	0.360	0.346	0.348	0.367	4.35
25)P Isophorone	0.669	0.673	0.658	0.658	0.626	0.636	0.649	0.653	2.60
26)P 2-Nitrophenol	0.207	0.217	0.217	0.213	0.208	0.203	0.201	0.209	3.06
27)P 2,4-Dimethylpheno	0.380	0.370	0.355	0.352	0.339	0.334	0.320	0.350	5.93
28)P bis(2-Chloroethox	0.406	0.409	0.402	0.397	0.384	0.380	0.377	0.394	3.33
29) Benzoic Acid	0.316	0.343	0.303	0.338	0.317	0.328	0.348	0.328	5.02
30)P 2,4-Dichloropheno	0.333	0.323	0.311	0.301	0.286	0.277	0.267	0.300	8.09
31) 1,2,4-Trichlorobe	0.345	0.345	0.335	0.326	0.314	0.311	0.299	0.325	5.51
32)P Naphthalene	1.127	1.108	1.070	1.010	0.952	0.939	0.881	1.012	9.18
33)P 4-Chloroaniline	0.487	0.486	0.449	0.418	0.398	0.377	0.352	0.424	12.33
34) 2,6-Dichloropheno	0.333	0.322	0.304	0.289	0.271	0.269	0.258	0.292	9.76
35)P Hexachlorobutadie	0.197	0.187	0.183	0.177	0.169	0.166	0.152	0.176	8.51
36)P Caprolactam	0.120	0.121	0.108	0.110	0.104	0.114	0.131	0.115	8.00
37)P 4-Chloro-3-methyl	0.327	0.315	0.302	0.300	0.285	0.283	0.286	0.300	5.47
38)P 2-Methylnaphthale	0.736	0.737	0.691	0.671	0.640	0.618	0.864	0.708	11.57
39) 1-Methylnaphthale	0.680	0.679	0.636	0.621	0.593	0.581	0.562	0.622	7.44
40)P 1,2,4,5-Tetrachlo	0.336	0.334	0.324	0.314	0.300	0.298	0.288	0.313	5.96
41) I Acenaphthene-d10	----------ISTD----------								

Initial Calibration Summary

Job Number: F97561 **Sample:** SX1244-ICC1244
Account: CSXT CSX Transportation **Lab FileID:** X025741.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

42)P Hexachlorocyclope	0.346	0.361	0.387	0.385	0.388	0.363	0.342	0.367	5.30
43)P 2,4,6-Trichloroph	0.433	0.438	0.430	0.413	0.410	0.389	0.381	0.414	5.28
44)P 2,4,5-Trichloroph	0.468	0.459	0.444	0.433	0.421	0.407	0.373	0.429	7.58
45)S 2-Fluorobiphenyl	1.496	1.475	1.438	1.353	1.317	1.269	1.177	1.361	8.57
46)P 1,1'-Biphenyl	1.693	1.652	1.554	1.480	1.417	1.335	1.204	1.476	11.78
47)P 2-Chloronaphthale	1.295	1.274	1.216	1.144	1.113	1.065	0.995	1.157	9.53
48)P 2-Nitroaniline	0.417	0.427	0.410	0.404	0.391	0.386	0.378	0.402	4.35
49) p-Dinitrobenzene	0.255	0.254	0.252	0.253	0.241	0.238	0.241	0.248	2.97
50)P Dimethylphthalate	1.421	1.375	1.254	1.220	1.163	1.146	1.118	1.242	9.37
51) m-Dinitrobenzene	0.239	0.241	0.223	0.215	0.203	0.201	0.200	0.217	8.16
52)P 2,6-Dinitrotoluen	0.318	0.321	0.313	0.310	0.304	0.289	0.295	0.307	3.82
53) o-Dinitrobenzene	0.255	0.254	0.244	0.242	0.234	0.231	0.235	0.242	3.97
54)P Acenaphthylene	2.095	2.058	1.894	1.811	1.749	1.693	1.650	1.850	9.41
55)P 3-Nitroaniline	0.414	0.395	0.381	0.361	0.341	0.329	0.322	0.363	9.64
56)P Acenaphthene	1.296	1.283	1.222	1.135	1.085	1.037	0.988	1.149	10.51
57)P 2,4-Dinitrophenol	0.167	0.187	0.211	0.227	0.219	0.219	0.226	0.208	10.87
58)P 4-Nitrophenol	0.191	0.191	0.175	0.174	0.166	0.160	0.158	0.173	7.85
59)P Dibenzofuran	1.815	1.782	1.689	1.624	1.583	1.527	1.458	1.640	7.97
60)P 2,4-Dinitrotoluen	0.412	0.418	0.399	0.389	0.370	0.363	0.364	0.388	5.82
61)P 2,3,5,6-Tetrachlo	0.324	0.337	0.329	0.327	0.311	0.305	0.304	0.320	4.01
62)P 2,3,4,6-Tetrachlo	0.333	0.330	0.327	0.320	0.306	0.296	0.296	0.316	5.03
63)P Diethylphthalate	1.418	1.383	1.288	1.237	1.191	1.165	1.149	1.262	8.40
64)P Fluorene	1.429	1.412	1.332	1.287	1.234	1.199	1.160	1.293	7.99
65)P 4-Chlorophenyl-ph	0.644	0.654	0.613	0.586	0.564	0.546	0.536	0.592	7.86
66)P 4-Nitroaniline	0.379	0.370	0.346	0.347	0.330	0.325	0.335	0.347	5.80
67) I Phenanthrene-d10	----------ISTD----------								
68)P 4,6-Dinitro-2-met	0.137	0.154	0.161	0.165	0.163	0.159	0.153	0.156	6.14
69)P n-Nitrosodiphenyl	0.631	0.629	0.605	0.571	0.559	0.526	0.485	0.572	9.45
70) 1,2-Diphenylhydra	0.960	0.971	0.941	0.901	0.881	0.867	0.800	0.903	6.65
71)S 2,4,6-Tribromophe	0.108	0.110	0.108	0.108	0.105	0.102	0.101	0.106	3.23
72)P 4-Bromophenyl-phe	0.210	0.212	0.207	0.201	0.200	0.193	0.189	0.202	4.31
73)P Hexachlorobenzene	0.225	0.230	0.219	0.218	0.215	0.209	0.204	0.217	4.16
74) Simazine	0.125	0.124	0.116	0.114	0.111	0.106	0.106	0.115	6.81
75)P Atrazine	0.217	0.210	0.226	0.217	0.206	0.193	0.195	0.209	5.78
76)P Pentachlorophenol	0.130	0.144	0.149	0.151	0.150	0.145	0.145	0.145	4.94
77)P Phenanthrene	1.182	1.172	1.100	1.075	1.036	1.008	0.977	1.079	7.29
78)P Anthracene	1.185	1.191	1.145	1.115	1.067	1.039	1.013	1.108	6.37
79)P Carbazole	1.148	1.152	1.061	1.041	1.001	0.981	0.968	1.050	7.19
80)P Di-n-butylphthala	1.287	1.289	1.236	1.212	1.169	1.137	1.119	1.207	5.68
81)P Fluoranthene	1.096	1.109	1.024	1.018	0.967	0.941	0.952	1.015	6.66
82) I Chrysene-d12	----------ISTD----------								
83) Benzidine	0.751	0.795	0.885	0.728	0.677	0.620	0.611	0.724	13.54
84)P Pyrene	1.527	1.472	1.536	1.497	1.476	1.449	1.391	1.479	3.34
85)S Terphenyl-d14	0.922	0.910	0.940	0.916	0.914	0.895	0.864	0.909	2.62
86)P Butylbenzylphthal	0.650	0.643	0.655	0.643	0.628	0.619	0.605	0.635	2.85
87)P 3,3'-Dichlorobenz	0.445	0.453	0.442	0.414	0.392	0.380	0.373	0.414	8.05
88)P Benzo[a]anthracen	1.141	1.137	1.114	1.109	1.089	1.079	1.089	1.108	2.19
89)P Chrysene	1.092	1.107	1.080	1.054	1.025	1.019	0.996	1.053	3.96
90)P bis(2-Ethylhexyl)	0.845	0.851	0.878	0.855	0.829	0.825	0.796	0.840	3.13
91) I Perylene-d12	----------ISTD----------								
92)P Di-n-octylphthala	1.550	1.558	1.688	1.614	1.582	1.571	1.479	1.578	4.05
93)P Benzo[b]fluoranth	1.137	1.162	1.190	1.142	1.199	1.170	1.303	1.186	4.75
94)P Benzo[k]fluoranth	1.160	1.138	1.138	1.073	1.057	1.070	0.786	1.060	12.02
95)P Benzo[a]pyrene	1.086	1.079	1.100	1.096	1.063	1.072	1.065	1.080	1.35
96)P Indeno[1,2,3-cd]p	0.838	0.862	0.841	0.845	0.848	0.844	0.871	0.850	1.41
97)P Dibenz[a,h]anthra	0.832	0.847	0.840	0.845	0.834	0.840	0.889	0.847	2.31
98)P Benzo[g,h,i]peryl	0.967	0.971	0.936	0.947	0.924	0.934	0.945	0.946	1.81

Initial Calibration Summary

Job Number: F97561 **Sample:** SX1244-ICC1244
Account: CSXT CSX Transportation **Lab FileID:** X025741.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

(#) = Out of Range

8270d.m Tue Oct 02 09:09:50 2012

Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025743.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100112\X025743.D Vial: 10
Acq On : 1 Oct 2012 3:01 pm Operator: fouads
Sample : icv1244-50 Inst : MSBNA05
Misc : op43151,sx1244,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	3.75
2		1,4-Dioxane	50.000	50.350	-0.7	98	0.05	1.20
3		N-nitrosodimethylamine	50.000	49.458	1.1	99	0.05	1.45
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	51.671	-3.3	103	0.00	3.61
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	52.589	-5.2	104	-0.01	3.61
11	P	2-Chlorophenol	50.000	53.744	-7.5	103	0.00	3.63
12		1,3-Dichlorobenzene	50.000	50.330	-0.7	98	0.00	3.71
13		1,4-Dichlorobenzene	50.000	50.652	-1.3	99	0.00	3.76
14		1,2-Dichlorobenzene	50.000	51.382	-2.8	102	0.00	3.89
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	49.887	0.2	97	0.00	4.03
17	P	bis(2-chloroisopropyl)eth	50.000	49.334	1.3	98	0.00	4.01
18	P	Acetophenone	50.000	52.701	-5.4	104	-0.01	4.08
19	P	N-Nitroso-di-n-propylamin	50.000	51.533	-3.1	99	-0.01	4.12
20	P	3&4-Methylphenol	100.000	100.052	-0.1	101	0.00	4.15
21	P	Hexachloroethane	50.000	50.716	-1.4	99	0.00	4.11
22	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00	4.68
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	51.984	-4.0	101	0.00	4.19
25	P	Isophorone	50.000	43.606	12.8	85	0.00	4.38
26	P	2-Nitrophenol	50.000	51.654	-3.3	100	0.00	4.42
27	P	2,4-Dimethylphenol	50.000	45.974	8.1	90	0.00	4.50
28	P	bis(2-Chloroethoxy)methan	50.000	52.156	-4.3	102	0.00	4.56
29		Benzoic Acid	100.000	104.831	-4.8	93	0.00	4.72
30	P	2,4-Dichlorophenol	50.000	51.622	-3.2	102	0.00	4.61
31		1,2,4-Trichlorobenzene	50.000	51.039	-2.1	101	0.00	4.65
32	P	Naphthalene	50.000	49.917	0.2	99	0.00	4.69
33	P	4-Chloroaniline		----------NA----------				
34		2,6-Dichlorophenol	50.000	53.657	-7.3	107	0.00	4.78
35	P	Hexachlorobutadiene	50.000	50.475	-1.0	99	0.00	4.85
36	P	Caprolactam	50.000	54.743	-9.5	113	-0.03	5.10
37	P	4-Chloro-3-methylphenol	50.000	51.575	-3.2	102	-0.01	5.24
38	P	2-Methylnaphthalene		----------NA----------				

Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025743.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

39		1-Methylnaphthalene	50.000	51.610	-3.2	102	0.00	5.37
40	P	1,2,4,5-Tetrachlorobenzen	50.000	50.280	-0.6	99	0.00	5.48
41	I	Acenaphthene-d10	40.000	40.000	0.0	102	0.00	6.44
42	P	Hexachlorocyclopentadiene	50.000	52.639	-5.3	102	0.00	5.50
43	P	2,4,6-Trichlorophenol	50.000	50.176	-0.4	102	0.00	5.61
44	P	2,4,5-Trichlorophenol	50.000	52.451	-4.9	106	-0.01	5.66
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	48.639	2.7	99	0.00	5.77
47	P	2-Chloronaphthalene	50.000	49.393	1.2	102	0.00	5.76
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	49.419	1.2	102	-0.02	6.25
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	51.629	-3.3	104	-0.02	6.31
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene	50.000	49.659	0.7	103	-0.01	6.24
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	53.222	-6.4	109	-0.01	6.48
57	P	2,4-Dinitrophenol	100.000	110.372	-10.4	94	-0.02	6.61
58	P	4-Nitrophenol	100.000	103.093	-3.1	105	0.00	6.85
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	50.758	-1.5	103	-0.02	6.83
61	P	2,3,5,6-Tetrachlorophenol	50.000	49.674	0.7	99	0.06	6.98
62	P	2,3,4,6-Tetrachlorophenol	50.000	50.298	-0.6	101	0.00	6.98
63	P	Diethylphthalate	50.000	51.021	-2.0	106	0.00	7.26
64	P	Fluorene	50.000	50.898	-1.8	104	0.00	7.18
65	P	4-Chlorophenyl-phenylethe	50.000	50.230	-0.5	103	0.00	7.24
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00	8.62
68	P	4,6-Dinitro-2-methylpheno	100.000	114.714	-14.7	111	-0.02	7.42
69	P	n-Nitrosodiphenylamine	50.000	49.331	1.3	85	-0.02	7.46
70		1,2-Diphenylhydrazine	50.000	49.095	1.8	102	0.00	7.48
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether	50.000	50.404	-0.8	105	0.00	7.98
73	P	Hexachlorobenzene	50.000	49.907	0.2	103	0.00	8.15
74		Simazine		----------NA----------				
75	P	Atrazine	50.000	57.240	-14.5	114	-0.02	8.48
76	P	Pentachlorophenol	100.000	105.479	-5.5	99	0.00	8.50
77	P	Phenanthrene	50.000	52.123	-4.2	109	0.00	8.66
78	P	Anthracene	50.000	51.636	-3.3	106	0.00	8.74
79	P	Carbazole		----------NA----------				
80	P	Di-n-butylphthalate	50.000	49.704	0.6	103	0.00	10.01
81	P	Fluoranthene	50.000	50.317	-0.6	104	0.00	10.71
82	I	Chrysene-d12	40.000	40.000	0.0	104	0.00	13.36
83		Benzidine		----------NA----------				
84	P	Pyrene	50.000	53.579	-7.2	110	0.00	11.08
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate	50.000	51.532	-3.1	106	0.00	12.71
87	P	3,3'-Dichlorobenzidine		----------NA----------				
88	P	Benzo[a]anthracene	50.000	53.049	-6.1	110	-0.01	13.32
89	P	Chrysene	50.000	52.529	-5.1	109	0.00	13.40
90	P	bis(2-Ethylhexyl)phthalat	50.000	51.911	-3.8	106	0.00	13.96
91	I	Perylene-d12	40.000	40.000	0.0	106	0.00	15.79
92	P	Di-n-octylphthalate	50.000	52.600	-5.2	109	0.00	15.07
93	P	Benzo[b]fluoranthene	50.000	53.930	-7.9	119	-0.01	15.21
94	P	Benzo[k]fluoranthene	50.000	54.852	-9.7	115	-0.02	15.26

Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025743.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

95	P	Benzo[a]pyrene	50.000	50.638	-1.3	106	-0.02	15.69
96	P	Indeno[1,2,3-cd]pyrene	50.000	52.350	-4.7	112	-0.01	17.35
97	P	Dibenz[a,h]anthracene	50.000	52.716	-5.4	112	-0.02	17.42
98	P	Benzo[g,h,i]perylene	50.000	50.943	-1.9	108	-0.02	17.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X025739.D 8270d.m Tue Oct 02 08:58:20 2012

7.7.12

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Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025744.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100112\X025744.D Vial: 11
Acq On : 1 Oct 2012 3:29 pm Operator: fouads
Sample : icv1244-50 Inst : MSBNA05
Misc : op43151,sx1244,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	83	0.00	3.74
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	52.147	-4.3	87	0.00	1.37
5	S	2-Fluorophenol		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
6	P	Benzaldehyde	25.000	36.388	-45.6#	97	0.00	3.41
		---------- Amount	Calc.	%Drift	----------			
7		Aniline	50.000	47.265	5.5	78	0.00	3.54
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	51.968	-3.9	86	-0.01	3.90
16	P	2-Methylphenol		----------NA----------				
17	P	bis(2-chloroisopropyl)eth		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	N-Nitroso-di-n-propylamin		----------NA----------				
20	P	3&4-Methylphenol		----------NA----------				
21	P	Hexachloroethane		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	83	-0.01	4.67
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	48.976	2.0	81	-0.02	4.36
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	51.183	-2.4	86	-0.01	4.77
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	48.658	2.7	85	-0.01	5.27

Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025744.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	82	-0.01	6.44
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	53.343	-6.7	87	-0.01	5.95
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline	50.000	49.209	1.6	81	-0.03	6.47
56	P	Acenaphthene		----------NA----------				
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
59	P	Dibenzofuran	50.000	53.510	-7.0	88	-0.01	6.70
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	50.521	-1.0	82	-0.06	7.34
67	I	Phenanthrene-d10	40.000	40.000	0.0	79	-0.02	8.61
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
69	P	n-Nitrosodiphenylamine		----------NA----------				
70		1,2-Diphenylhydrazine		----------NA----------				
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether		----------NA----------				
73	P	Hexachlorobenzene		----------NA----------				
74		Simazine	50.000	31.000	38.0#	49	-0.07	8.37
75	P	Atrazine		----------NA----------				
76	P	Pentachlorophenol		----------NA----------				
77	P	Phenanthrene		----------NA----------				
78	P	Anthracene		----------NA----------				
79	P	Carbazole	50.000	52.253	-4.5	83	-0.01	9.09
80	P	Di-n-butylphthalate		----------NA----------				
81	P	Fluoranthene		----------NA----------				
82	I	Chrysene-d12	40.000	40.000	0.0	74	-0.03	13.34
83		Benzidine	50.000	122.463	-144.9#	181	0.00	11.13
84	P	Pyrene		----------NA----------				
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate		----------NA----------				
87	P	3,3'-Dichlorobenzidine	50.000	88.760	-77.5#	132	-0.01	13.46
88	P	Benzo[a]anthracene		----------NA----------				
89	P	Chrysene		----------NA----------				
90	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
91	I	Perylene-d12	40.000	40.000	0.0	74	-0.03	15.77
92	P	Di-n-octylphthalate		----------NA----------				
93	P	Benzo[b]fluoranthene		----------NA----------				
94	P	Benzo[k]fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: F97561 **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025744.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
 95 P   Benzo[a]pyrene                        ----------NA----------
 96 P   Indeno[1,2,3-cd]pyrene                ----------NA----------
 97 P   Dibenz[a,h]anthracene                 ----------NA----------
 98 P   Benzo[g,h,i]perylene                  ----------NA----------
--------------------------------------------------------------------------------
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   (#) = Out of Range                  SPCC's out = 0  CCC's out = 0
    X025739.D  8270d.m          Tue Oct 02 09:05:43 2012
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7.7.13

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Continuing Calibration Summary

Job Number: F97561 **Sample:** SX1251-CC1244
Account: CSXT CSX Transportation **Lab FileID:** X025911.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101012\X025911.D Vial: 2
Acq On : 10 Oct 2012 11:36 am Operator: fouads
Sample : cc1244-50 Inst : MSBNA05
Misc : op43151,sx1251,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 08:09:22 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	3.53
2		1,4-Dioxane	0.524	0.628	-19.8	132	-0.04	0.97
3		N-nitrosodimethylamine	0.854	0.982	-15.0	129	-0.05	1.18
4		Pyridine	1.434	1.740	-21.3#	134	-0.05	1.16
5	S	2-Fluorophenol	1.238	1.345	-8.6	121	-0.03	2.55
6	P	Benzaldehyde	0.735	0.753	-2.4	140	-0.03	3.19
7		Aniline	2.033	2.177	-7.1	119	-0.01	3.33
8	P	bis(2-Chloroethyl)ether	1.174	1.099	6.4	106	0.00	3.40
9	S	Phenol-d5	1.518	1.524	-0.4	114	0.00	3.40
10	P	Phenol	1.583	1.548	2.2	109	0.00	3.41
11	P	2-Chlorophenol	1.349	1.208	10.5	97	-0.01	3.40
12		1,3-Dichlorobenzene	1.513	1.598	-5.6	116	0.00	3.49
13		1,4-Dichlorobenzene	1.517	1.552	-2.3	113	0.00	3.54
14		1,2-Dichlorobenzene	1.434	1.495	-4.3	117	0.00	3.67
15		Benzyl alcohol	0.917	0.972	-6.0	117	0.01	3.70
16	P	2-Methylphenol	1.276	1.329	-4.2	114	0.03	3.82
17	P	bis(2-chloroisopropyl)eth	2.425	2.660	-9.7	123	0.03	3.80
18	P	Acetophenone	1.850	1.864	-0.8	112	0.00	3.87
19	P	N-Nitroso-di-n-propylamin	0.943	0.993	-5.3	114	0.04	3.92
20	P	3&4-Methylphenol	1.344	1.405	-4.5	115	0.04	3.94
21	P	Hexachloroethane	0.621	0.661	-6.4	116	0.03	3.89
22	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	4.46
23	S	Nitrobenzene-d5	0.374	0.409	-9.4	119	-0.02	3.97
24	P	Nitrobenzene	0.367	0.394	-7.4	115	-0.02	3.99
25	P	Isophorone	0.653	0.715	-9.5	118	0.00	4.17
26	P	2-Nitrophenol	0.209	0.228	-9.1	117	0.00	4.22
27	P	2,4-Dimethylphenol	0.350	0.366	-4.6	113	0.00	4.31
28	P	bis(2-Chloroethoxy)methan	0.394	0.432	-9.6	118	0.00	4.36
29		Benzoic Acid	0.328	0.356	-8.5	114	0.02	4.50
30	P	2,4-Dichlorophenol	0.300	0.316	-5.3	114	0.00	4.40
31		1,2,4-Trichlorobenzene	0.325	0.345	-6.2	115	0.00	4.44
32	P	Naphthalene	1.012	1.015	-0.3	109	0.00	4.48
33	P	4-Chloroaniline	0.424	0.415	2.1	108	0.00	4.56
34		2,6-Dichlorophenol	0.292	0.296	-1.4	111	0.00	4.56
35	P	Hexachlorobutadiene	0.176	0.184	-4.5	113	0.00	4.63
36	P	Caprolactam	0.115	0.120	-4.3	119	0.00	4.88
37	P	4-Chloro-3-methylphenol	0.300	0.318	-6.0	115	-0.01	4.99
38	P	2-Methylnaphthalene	0.708	0.982	-38.7#	159	-0.02	5.01
39		1-Methylnaphthalene	0.622	0.655	-5.3	115	-0.02	5.10
40	P	1,2,4,5-Tetrachlorobenzen	0.313	0.331	-5.8	115	-0.03	5.20

Continuing Calibration Summary

Job Number: F97561 **Sample:** SX1251-CC1244
Account: CSXT CSX Transportation **Lab FileID:** X025911.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

41	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	6.10
42	P	Hexachlorocyclopentadiene	0.367	0.404	-10.1	115	0.01	5.23
43	P	2,4,6-Trichlorophenol	0.414	0.440	-6.3	116	0.01	5.33
44	P	2,4,5-Trichlorophenol	0.429	0.456	-6.3	115	0.00	5.37
45	S	2-Fluorobiphenyl	1.361	1.414	-3.9	114	0.01	5.40
46	P	1,1'-Biphenyl	1.476	1.479	-0.2	109	0.01	5.48
47	P	2-Chloronaphthalene	1.157	1.232	-6.5	118	0.00	5.46
48	P	2-Nitroaniline	0.402	0.451	-12.2	122	0.00	5.64
49		p-Dinitrobenzene	0.248	0.279	-12.5	121	0.00	5.79
50	P	Dimethylphthalate	1.242	1.339	-7.8	120	0.00	5.94
51		m-Dinitrobenzene	0.217	0.235	-8.3	120	0.00	5.92
52	P	2,6-Dinitrotoluene	0.307	0.330	-7.5	116	0.00	6.00
53		o-Dinitrobenzene	0.242	0.278	-14.9	125	0.00	6.06
54	P	Acenaphthylene	1.850	1.941	-4.9	117	0.00	5.91
55	P	3-Nitroaniline	0.363	0.365	-0.6	110	0.00	6.15
56	P	Acenaphthene	1.149	1.153	-0.3	111	0.00	6.14
57	P	2,4-Dinitrophenol	0.208	0.242	-16.3	116	0.00	6.27
58	P	4-Nitrophenol	0.173	0.180	-4.0	113	0.00	6.48
59	P	Dibenzofuran	1.640	1.686	-2.8	113	0.00	6.34
60	P	2,4-Dinitrotoluene	0.388	0.405	-4.4	114	0.00	6.48
61	P	2,3,5,6-Tetrachlorophenol	0.320	0.351	-9.7	117	0.00	6.55
62	P	2,3,4,6-Tetrachlorophenol	0.316	0.339	-7.3	116	0.00	6.61
63	P	Diethylphthalate	1.262	1.332	-5.5	118	0.02	6.89
64	P	Fluorene	1.293	1.343	-3.9	114	0.00	6.80
65	P	4-Chlorophenyl-phenylethe	0.592	0.618	-4.4	115	0.01	6.87
66	P	4-Nitroaniline	0.347	0.364	-4.9	114	0.00	7.00
67	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	8.18
68	P	4,6-Dinitro-2-methylpheno	0.156	0.176	-12.8	114	-0.02	7.05
69	P	n-Nitrosodiphenylamine	0.572	0.584	-2.1	110	-0.01	7.09
70		1,2-Diphenylhydrazine	0.903	0.974	-7.9	116	-0.01	7.09
71	S	2,4,6-Tribromophenol	0.106	0.117	-10.4	116	-0.02	7.19
72	P	4-Bromophenyl-phenylether	0.202	0.218	-7.9	116	0.00	7.57
73	P	Hexachlorobenzene	0.217	0.237	-9.2	117	0.00	7.73
74		Simazine	0.115	0.090	21.7#	85	0.00	8.01
75	P	Atrazine	0.209	0.207	1.0	102	0.02	8.08
76	P	Pentachlorophenol	0.145	0.165	-13.8	117	0.00	8.07
77	P	Phenanthrene	1.079	1.117	-3.5	112	0.00	8.23
78	P	Anthracene	1.108	1.154	-4.2	111	0.00	8.30
79	P	Carbazole	1.050	1.065	-1.4	110	0.02	8.65
80	P	Di-n-butylphthalate	1.207	1.232	-2.1	109	0.08	9.59
81	P	Fluoranthene	1.015	1.040	-2.5	110	0.00	10.24
82	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	12.85
83		Benzidine	0.724	0.714	1.4	99	0.00	10.65
84	P	Pyrene	1.479	1.629	-10.1	110	0.00	10.60
85	S	Terphenyl-d14	0.909	0.993	-9.2	109	0.00	11.12
86	P	Butylbenzylphthalate	0.635	0.669	-5.4	105	0.00	12.25
87	P	3,3'-Dichlorobenzidine	0.414	0.453	-9.4	110	0.02	12.99
88	P	Benzo[a]anthracene	1.108	1.169	-5.5	106	0.00	12.82
89	P	Chrysene	1.053	1.106	-5.0	106	0.00	12.90
90	P	bis(2-Ethylhexyl)phthalat	0.840	0.864	-2.9	102	0.00	13.51
91	I	Perylene-d12	1.000	1.000	0.0	100	0.00	15.27
92	P	Di-n-octylphthalate	1.578	1.627	-3.1	101	0.04	14.61
93	P	Benzo[b]fluoranthene	1.186	1.279	-7.8	112	-0.02	14.69
94	P	Benzo[k]fluoranthene	1.060	1.135	-7.1	106	-0.02	14.74
95	P	Benzo[a]pyrene	1.080	1.159	-7.3	106	-0.01	15.17
96	P	Indeno[1,2,3-cd]pyrene	0.850	0.887	-4.4	105	0.04	16.82
97	P	Dibenz[a,h]anthracene	0.847	0.859	-1.4	102	0.04	16.90

7.7.14

7

Continuing Calibration Summary

Job Number: F97561 **Sample:** SX1251-CC1244
Account: CSXT CSX Transportation **Lab FileID:** X025911.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

98	P	Benzo[g,h,i]perylene	0.946	0.990	-4.7	104	0.00	17.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X025739.D 8270d.m Thu Oct 11 11:39:44 2012

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:06	MA10205-STD1	1		STDA
06:10	MA10205-STD2	1		STDB
06:15	MA10205-STD3	1		STDC
06:19	MA10205-STD4	1		STDD
06:28	MA10205-HSTD1	1		
06:35	MA10205-ICV1	1		
06:41	MA10205-ICB1	1		
06:45	MA10205-CRIA1	1		
06:53	MA10205-ICSA1	1		
07:01	MA10205-ICSAB1	1		
07:10	MA10205-CCV1	1		
07:21	MA10205-CCB1	1		
07:37	MP23825-MB1	1		
07:41	MP23825-B1	1		
07:49	MP23825-D1	1		
07:54	MP23825-SD1	5		
07:58	MP23825-PS1	1		
08:02	MP23825-S1	1		
08:07	MP23825-S2	1		
08:11	ZZZZZZ	1		
08:20	MA10205-CCV2	1		
08:24	MA10205-CCB2	1		
08:28	ZZZZZZ	1		
08:32	ZZZZZZ	1		
08:41	ZZZZZZ	1		
08:45	ZZZZZZ	1		
08:53	ZZZZZZ	1		
08:58	ZZZZZZ	1		
09:06	ZZZZZZ	1		
09:10	MA10205-CCV3	1		
09:14	MA10205-CCB3	1		
09:19	ZZZZZZ	1		
09:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:40	ZZZZZZ	1		
09:44	ZZZZZZ	1		
09:48	MP23826-MB1	1		
09:52	MP23826-B1	1		
09:56	F97564-1	1		(sample used for QC only; not part of login F97561)
10:01	MA10205-CCV4	1		
10:04	MA10205-CCB4	1		
10:09	MP23826-D1	1		
10:13	MP23826-SD1	5		
10:17	MP23826-PS1	1		
10:21	MP23826-S1	1		
10:26	MP23826-S2	1		
10:34	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:51	MA10205-CCV5	1		
10:55	MA10205-CCB5	1		
10:59	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:42	MA10205-CCV6	1		
11:46	MA10205-CCB6	1		
11:59	ZZZZZZ	1		
12:04	MP23828-MB1	1		
12:08	MP23828-B1	1		
12:12	F97523-4F	1		(sample used for QC only; not part of login F97561)
12:17	MP23828-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:21	MP23828-SD1	5		
12:26	MP23828-PS1	1		
12:30	MP23828-S1	1		
12:35	MA10205-CCV7	1		
12:39	MA10205-CCB7	1		
13:08	MA10205-CCV8	1		
13:17	MA10205-CCB8	1		
13:23	MP23828-S2	1		
13:27	F97553-5	1		(sample used for QC only; not part of login F97561)
13:32	MP23828-D2	1		
13:36	MP23828-SD2	5		
13:40	MP23828-PS2	1		
13:45	MP23828-S3	1		
13:49	MP23828-S4	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:06	MA10205-CCV9	1		
14:10	MA10205-CCB9	1		
14:14	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:41	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:58	MA10205-CCV10	1		
15:02	MA10205-CCB10	1		
15:06	F97561-9	1		
15:11	F97561-10	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:15	F97561-11	1		
15:19	F97561-12	1		
15:29	MP23828-MB2A	1		
15:33	MP23828-MB3A	1		
15:38	MP23832-MB1	1		
15:42	MP23832-B1	1		
15:46	F97553-5F	1		(sample used for QC only; not part of login F97561)
15:50	MP23832-D1	1		
15:55	MA10205-CCV11	1		
15:59	MA10205-CCB11	1		
16:03	MP23832-SD1	5		
16:07	MP23832-PS1	1		
16:12	MP23832-S1	1		
16:16	MP23832-S2	1		
16:20	F97561-2	1		
16:24	MP23832-D2	1		
16:29	MP23832-SD2	1		
16:33	MP23832-PS2	1		
16:37	MP23832-S3	1		
16:41	MP23832-S4	1		
16:45	MA10205-CCV12	1		
16:49	MA10205-CCB12	1		
16:54	ZZZZZZ	1		
16:58	ZZZZZZ	1		
17:03	ZZZZZZ	1		
17:07	ZZZZZZ	1		
17:11	F97561-10F	1		
17:16	F97561-11F	1		
17:20	F97561-12F	1		
17:25	ZZZZZZ	1		
17:29	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:38	MA10205-CCV13	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:42	MA10205-CCB13	1		
17:46	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	1		
17:59	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:21	MP23832-MB2A	1		
---------->	Last reportable sample/prep for job F97561			
18:25	MA10205-CRIA2	1		
18:29	MA10205-CCV14	1		
18:33	MA10205-CCB14	1		
18:38	MA10205-ICSA2	1		
18:42	MA10205-ICSAB2	1		
18:46	MA10205-CCV15	1		
18:50	MA10205-CCB15	1		
---------->	Last reportable CCB for job F97561			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:06	MA10205-STD1	3958	32784	6162	2132
06:10	MA10205-STD2	3955	32622	6140	2001
06:15	MA10205-STD3	3825	31615	6108	1802
06:19	MA10205-STD4	3671	30450	5995	1644
06:28	MA10205-HSTD1	3709	30811	6024	1656
06:35	MA10205-ICV1	3822	31770	6171	1812
06:41	MA10205-ICB1	3967 R	32905 R	6175 R	2140 R
06:45	MA10205-CRIA1	3894	32153	6110	2044
06:53	MA10205-ICSA1	3499	28258	5861	1572
07:01	MA10205-ICSAB1	3483	28249	5779	1539
07:10	MA10205-CCV1	3814	31256	5936	1787
07:21	MA10205-CCB1	3906	32390	5997	2112
07:37	MP23825-MB1	3901	32574	6097	2127
07:41	MP23825-B1	3823	31778	6075	1901
07:49	MP23825-D1	3773	31598	6232	1755
07:54	MP23825-SD1	3858	32282	6166	1959
07:58	MP23825-PS1	3745	31215	6212	1727
08:02	MP23825-S1	3699	30799	6198	1681
08:07	MP23825-S2	3717	31024	6207	1677
08:11	ZZZZZZ	4991	41479	8080	1795
08:20	MA10205-CCV2	3751	31677	5982	1823
08:24	MA10205-CCB2	3888	32845	6082	2169
08:28	ZZZZZZ	5005 !	41715 !	8128 !	1755
08:32	ZZZZZZ	5343 !	44368 !	8555 !	1787
08:41	ZZZZZZ	4218	34771	6736	1829
08:45	ZZZZZZ	5025 !	41412 !	7763 !	1926
08:53	ZZZZZZ	4268	34578	7028	1589
08:58	ZZZZZZ	4559	37577	6998	1992
09:06	ZZZZZZ	4422	35690	7090	1689
09:10	MA10205-CCV3	3808	31817	5972	1822
09:14	MA10205-CCB3	3905	32695	6004	2146
09:19	ZZZZZZ	4520	37216	6881	2026
09:27	ZZZZZZ	4431	36100	7002	1769

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:40	ZZZZZZ	4882	39993	7659	1842
09:44	ZZZZZZ	4458	37201	6894	2022
09:48	MP23826-MB1	3917	32996	6110	2142
09:52	MP23826-B1	3827	32276	6042	1897
09:56	F97564-1	4272	35418	6569	1917
10:01	MA10205-CCV4	3886	32572	6134	1844
10:04	MA10205-CCB4	3945	33707	6196	2172
10:09	MP23826-D1	4241	35110	6587	1914
10:13	MP23826-SD1	4106	34203	6270	2070
10:17	MP23826-PS1	4223	34969	6531	1877
10:21	MP23826-S1	4130	33914	6415	1817
10:26	MP23826-S2	4173	34348	6490	1810
10:34	ZZZZZZ	4413	36733	7040	1860
10:47	ZZZZZZ	4277	35211	7029	1593
10:51	MA10205-CCV5	3869	32631	6090	1831
10:55	MA10205-CCB5	3994	33606	6092	2168
10:59	ZZZZZZ	4310	35710	6579	2002
11:03	ZZZZZZ	3957	33207	6899	1428
11:08	ZZZZZZ	4281	35797	6570	1997
11:12	ZZZZZZ	4106	34173	6329	2016
11:16	ZZZZZZ	3990	33201	6216	1938
11:20	ZZZZZZ	No results reported for the elements associated with this internal standard.			
11:24	ZZZZZZ	No results reported for the elements associated with this internal standard.			
11:29	ZZZZZZ	3700	32095	5927	1771
11:33	ZZZZZZ	66807 !	530990 !	109970 !	1330
11:37	ZZZZZZ	4961	40527	7744	1675
11:42	MA10205-CCV6	3856	32437	5854	1834
11:46	MA10205-CCB6	3959	33616	5908	2165
11:59	ZZZZZZ	3302	28599	6136	1080
12:04	MP23828-MB1	3926	33390	5808	2140
12:08	MP23828-B1	3847	32310	5734	1913
12:12	F97523-4F	3070	26396	5431	1356
12:17	MP23828-D1	2989	25888	5691	1333

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:21	MP23828-SD1	3473	28869	6185	1679
12:26	MP23828-PS1	3041	26251	5795	1329
12:30	MP23828-S1	3141	27104	5823	1312
12:35	MA10205-CCV7	3718	33777	6468	1825
12:39	MA10205-CCB7	3826	34605	6523	2171
13:08	MA10205-CCV8	3719	33872	6480	1837
13:17	MA10205-CCB8	3870	35398	6553	2207
13:23	MP23828-S2	3069	27268	5849	1312
13:27	F97553-5	3339	30399	6263	1680
13:32	MP23828-D2	3321	30385	6279	1680
13:36	MP23828-SD2	3564	32153	6457	1916
13:40	MP23828-PS2	3335	30550	6293	1662
13:45	MP23828-S3	3418	31369	6311	1634
13:49	MP23828-S4	3409	31212	6284	1629
13:53	ZZZZZZ	3274	29676	6178	1617
13:57	ZZZZZZ	3257	29760	6205	1618
14:02	ZZZZZZ	3471	32349	6377	1853
14:06	MA10205-CCV9	3615	33433	6400	1809
14:10	MA10205-CCB9	3747	34895	6517	2177
14:14	ZZZZZZ	3084	27359	5969	1456
14:19	ZZZZZZ	3472	31902	6383	1839
14:23	ZZZZZZ	3184	28657	6125	1559
14:28	ZZZZZZ	3452	32235	6351	1835
14:32	ZZZZZZ	3427	31371	6385	1831
14:36	ZZZZZZ	3231	30222	6105	1637
14:41	ZZZZZZ	3725	34818	6529	2107
14:45	ZZZZZZ	3459	31469	6325	1751
14:49	ZZZZZZ	3439	31797	6376	1775
14:54	ZZZZZZ	3204	29187	6201	1571
14:58	MA10205-CCV10	3599	33340	6490	1798
15:02	MA10205-CCB10	3773	34441	6491	2150
15:06	F97561-9	3141	27635	5968	1464
15:11	F97561-10	3485	32022	6362	1781

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:15	F97561-11	3547	32828	6415	1803
15:19	F97561-12	3136	27717	6079	1452
15:29	MP23828-MB2A	3737	34789	6659	2134
15:33	MP23828-MB3A	3737	34966	6649	2139
15:38	MP23832-MB1	3732	34795	6636	2140
15:42	MP23832-B1	3631	33434	6499	1878
15:46	F97553-5F	3309	29832	6281	1627
15:50	MP23832-D1	3368	30334	6343	1647
15:55	MA10205-CCV11	3710	33830	6445	1800
15:59	MA10205-CCB11	3803	34790	6528	2148
16:03	MP23832-SD1	3608	32388	6450	1879
16:07	MP23832-PS1	3368	30214	6158	1626
16:12	MP23832-S1	3359	31001	6392	1574
16:16	MP23832-S2	3375	31133	6415	1592
16:20	F97561-2	3417	31500	6454	1724
16:24	MP23832-D2	3394	31465	6467	1701
16:29	MP23832-SD2	3617	33515	6648	1951
16:33	MP23832-PS2	3441	31812	6499	1717
16:37	MP23832-S3	3360	31690	6528	1644
16:41	MP23832-S4	3404	32052	6495	1653
16:45	MA10205-CCV12	3505	33742	6686	1774
16:49	MA10205-CCB12	3629	34911	6814	2133
16:54	ZZZZZZ	3293	30970	6539	1707
16:58	ZZZZZZ	3061	28362	6352	1487
17:03	ZZZZZZ	3357	31748	6515	1766
17:07	ZZZZZZ	3158	29600	6390	1576
17:11	F97561-10F	3287	31824	6602	1765
17:16	F97561-11F	3315	32413	6631	1807
17:20	F97561-12F	2947	27442	6217	1417
17:25	ZZZZZZ	3217	29763	6618	1621
17:29	ZZZZZZ	3114	28232	6265	1489
17:33	ZZZZZZ	3300	31048	6352	1743
17:38	MA10205-CCV13	3601	33708	6526	1800

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:42	MA10205-CCB13	3703	34845	6576	2154
17:46	ZZZZZZ	3414	31942	6441	1743
17:50	ZZZZZZ	3029	27777	6037	1419
17:55	ZZZZZZ	3269	29785	6295	1640
17:59	ZZZZZZ	3423	31854	6338	1802
18:04	ZZZZZZ	3268	30008	6251	1630
18:08	ZZZZZZ	3472	32498	6381	1827
18:12	ZZZZZZ	3474	32429	6377	1829
18:16	ZZZZZZ	3441	32312	6387	1836
18:21	MP23832-MB2A	3698	34897	6531	2157
18:25	MA10205-CRIA2	3720	34430	6551	2086
18:29	MA10205-CCV14	3609	33526	6459	1810
18:33	MA10205-CCB14	3737	34907	6535	2172
18:38	MA10205-ICSA2	3295	30109	6128	1555
18:42	MA10205-ICSAB2	3292	30008	6116	1535
18:46	MA10205-CCV15	3599	33559	6391	1812
18:50	MA10205-CCB15	3729	34771	6485	2170

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time: / Sample ID:			06:41 ICB1		07:21 CCB1		08:24 CCB2		09:14 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	-0.40	<10	-0.10	<10	0.10	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	-0.10	<5.0	0.20	<5.0	1.0	<5.0	0.70	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time: / Sample ID:			10:04 CCB4		10:55 CCB5		11:46 CCB6		12:39 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	0.30	<10	-0.60	<10	0.60	<10	-0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.20	<5.0	0.30	<5.0	0.20	<5.0	-0.90	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	13:17 CCB8 raw	final	14:10 CCB9 raw	final	15:02 CCB10 raw	final	15:59 CCB11 raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	1.0	<10	1.4	<10	1.5	<10	1.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.0	<5.0	0.40	<5.0	0.30	<5.0	0.60	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time:			16:49		17:42		18:33		18:50	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	1.4	<10	1.6	<10	1.0	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.50	<5.0	-0.10	<5.0	0.30	<5.0	0.40	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		06:35			07:10			08:20	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	2010	100.5	2000	1950	97.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		09:10			10:01			10:51	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2060	103.0	2000	2020	101.0	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1950	97.5	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		11:42			12:35			13:08	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2080	104.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	1870	93.5	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		14:06			14:58			15:55	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1960	98.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		16:45			17:38			18:29	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1920	96.0	2000	1940	97.0	2000	1930	96.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		18:46	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2000	2040	102.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	1940	97.0
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10205 Units: ug/l

Time:		06:28	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4060	101.5
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10205 Units: ug/l

Time:			06:45		18:25	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	10.2	102.0	11.7	117.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	5.3	106.0	4.9	98.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10205 Units: ug/l

Time:			06:53		07:01		18:38		18:42	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	505000	101.0	517000	103.4	508000	101.6	517000	103.4
Antimony		1000	0.0		1010	101.0	3.2		1030	103.0
Arsenic		1000	0.0		1030	103.0	4.1		1030	103.0
Barium		500	0.40		473	94.6	0.40		484	96.8
Beryllium		500	-0.20		459	91.8	-0.20		457	91.4
Cadmium		1000	0.50		864	86.4	2.0		830	83.0
Calcium	500000	500000	477000	95.4	488000	97.6	465000	93.0	467000	93.4
Chromium		500	0.40		470	94.0	-0.10		453	90.6
Cobalt		500	0.10		430	86.0	0.50		416	83.2
Copper		500	0.0		510	102.0	2.8		526	105.2
Iron	200000	200000	179000	89.5	184000	92.0	179000	89.5	182000	91.0
Lead		1000	-0.10		879	87.9	-9.7		822	82.2
Magnesium	500000	500000	515000	103.0	522000	104.4	510000	102.0	507000	101.4
Manganese		500	0.20		453	90.6	0.0		449	89.8
Molybdenum		1000	0.50		936	93.6	0.70		938	93.8
Nickel		1000	0.0		842	84.2	1.1		831	83.1
Potassium			-44		-25		-34		-16	
Selenium		1000	0.0		1000	100.0	2.5		1000	100.0
Silver		1000	-0.80		908	90.8	-1.0		917	91.7
Sodium			80.2		94.6		-54		-52	
Strontium		1000	3.9		1010	101.0	3.3		1030	103.0
Thallium		1000	0.90		951	95.1	-1.0		941	94.1
Tin		1000	-0.90		865	86.5	0.10		836	83.6
Titanium		1000	-0.60		993	99.3	-0.20		1010	101.0
Vanadium		500	0.10		442	88.4	0.70		435	87.0
Zinc		1000	3.2		861	86.1	3.5		816	81.6

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:00	MA10212-STD1	1		STDA
08:05	MA10212-STD2	1		STDB
08:09	MA10212-STD3	1		STDC
08:14	MA10212-STD4	1		STDD
08:20	MA10212-HSTD1	1		
08:29	MA10212-ICV1	1		
08:37	MA10212-ICB1	1		
08:41	MA10212-CRIA1	1		
08:52	MA10212-ICSA1	1		
08:59	MA10212-ICSAB1	1		
09:10	MA10212-CCV1	1		
09:20	MA10212-CCB1	1		
09:26	MP23848-MB1	1		
09:30	MP23848-B1	1		
09:34	F97666-1	1		(sample used for QC only; not part of login F97561)
09:38	MP23848-D1	1		
09:43	MP23848-SD1	5		
09:47	MP23848-PS1	1		
09:52	MP23848-S1	1		
09:56	MP23848-S2	1		
10:01	ZZZZZZ	1		
10:06	ZZZZZZ	1		
10:10	MA10212-CCV2	1		
10:14	MA10212-CCB2	1		
10:18	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:33	ZZZZZZ	1		
10:37	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:54	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:58	ZZZZZZ	5		
11:02	MA10212-CCV3	1		
11:06	MA10212-CCB3	1		
11:11	ZZZZZZ	5		
11:15	ZZZZZZ	5		
11:19	ZZZZZZ	5		
11:24	ZZZZZZ	5		
11:28	ZZZZZZ	5		
11:32	ZZZZZZ	5		
11:37	ZZZZZZ	5		
11:42	MP23849-MB1	1		
11:46	MP23849-B1	1		
11:50	F97718-1	1		(sample used for QC only; not part of login F97561)
11:54	MA10212-CCV4	1		
11:58	MA10212-CCB4	1		
12:02	MP23849-D1	1		
12:07	MP23849-SD1	5		
12:11	MP23849-PS1	1		
12:15	MP23849-S1	1		
12:19	MP23849-S2	1		
12:24	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:45	MA10212-CCV5	1		
12:49	MA10212-CCB5	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:15	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:19	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:36	MA10212-CCV6	1		
13:40	MA10212-CCB6	1		
13:46	ZZZZZZ	1		
13:59	MP23852-MB1	1		
14:04	MP23852-B1	1		
14:08	F97561-2F	1		
14:12	MP23852-D1	1		
14:16	MP23852-SD1	5		
14:21	MP23852-PS1	1		
14:25	MP23852-S1	1		
14:29	MA10212-CCV7	1		
14:33	MA10212-CCB7	1		
14:37	MP23852-S2	1		
14:41	F97600-28	1		(sample used for QC only; not part of login F97561)
14:46	MP23852-D2	1		
14:50	MP23852-SD2	5		
14:54	MP23852-PS2	1		
14:59	MP23852-S3	1		
15:03	MP23852-S4	1		
15:07	ZZZZZZ	1		
15:11	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:20	MA10212-CCV8	1		
15:24	MA10212-CCB8	1		
15:29	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:46	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:51	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:08	ZZZZZZ	1		
16:12	MA10212-CCV9	1		
16:16	MA10212-CCB9	1		
16:20	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:29	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:41	MP23852-MB2A	1		
16:46	MP23852-MB3A	1		
---------->	Last reportable sample/prep for job F97561			
16:50	MP23853-MB1	1		
16:54	MP23853-B1	1		
16:58	F97679-9	5		(sample used for QC only; not part of login F97561)
17:03	MA10212-CCV10	1		
17:07	MA10212-CCB10	1		
17:11	MP23853-D1	5		
17:16	MP23853-SD1	25		
17:20	MP23853-PS1	5		
17:24	MP23853-S1	5		
17:29	MP23853-S2	5		
17:33	ZZZZZZ	5		
17:37	ZZZZZZ	5		
17:42	ZZZZZZ	5		
17:46	ZZZZZZ	5		
17:51	ZZZZZZ	5		
17:55	MA10212-CCV11	1		
17:59	MA10212-CCB11	1		
18:03	ZZZZZZ	5		
18:08	ZZZZZZ	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:12	ZZZZZZ	5		
18:17	ZZZZZZ	5		
18:21	ZZZZZZ	5		
18:26	ZZZZZZ	5		
18:30	ZZZZZZ	5		
18:35	ZZZZZZ	5		
18:40	ZZZZZZ	5		
18:44	ZZZZZZ	5		
18:48	MA10212-CCV12	1		
18:52	MA10212-CCB12	1		
18:57	ZZZZZZ	5		
19:01	ZZZZZZ	5		
19:14	MA10212-CRIA2	1		
19:18	MA10212-ICSA2	1		
19:23	MA10212-ICSAB2	1		
19:27	MA10212-CCV13	1		
19:31	MA10212-CCB13	1		

----------> Last reportable CCB for job F97561
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:00	MA10212-STD1	4926	39059	7511	2596
08:05	MA10212-STD2	4903	38420	7565	2445
08:09	MA10212-STD3	4717	37336	7516	2196
08:14	MA10212-STD4	4496	35920	7398	2019
08:20	MA10212-HSTD1	4572	35971	7410	2020
08:29	MA10212-ICV1	4642	36952	7502	2181
08:37	MA10212-ICB1	4972 R	39113 R	7525 R	2559 R
08:41	MA10212-CRIA1	4973	38722	7552	2467
08:52	MA10212-ICSA1	4355	32782	7278	1883
08:59	MA10212-ICSAB1	4413	33400	7306	1869
09:10	MA10212-CCV1	4818	37303	7489	2153
09:20	MA10212-CCB1	5066	39656	7579	2559
09:26	MP23848-MB1	4921	38920	7369	2500
09:30	MP23848-B1	4834	37829	7419	2274
09:34	F97666-1	7175 !	54905 !	11323 !	2049
09:38	MP23848-D1	6732 !	51293 !	10532 !	2041
09:43	MP23848-SD1	5509	42361	8325	2341
09:47	MP23848-PS1	7110 !	54285 !	11233 !	2051
09:52	MP23848-S1	7125 !	54851 !	11392 !	2023
09:56	MP23848-S2	6749 !	51631 !	10884 !	1978
10:01	ZZZZZZ	6932 !	53384 !	11095 !	1997
10:06	ZZZZZZ	7740 !	59665 !	12602 !	1964
10:10	MA10212-CCV2	4792	37782	7426	2189
10:14	MA10212-CCB2	4906	38959	7414	2532
10:18	ZZZZZZ	7218 !	55922 !	11589 !	2019
10:23	ZZZZZZ	7024 !	55149 !	11180 !	2107
10:28	ZZZZZZ	6442 !	52013 !	10445 !	2107
10:33	ZZZZZZ	6824 !	55229 !	11207 !	2128
10:37	ZZZZZZ	4783	38503	7362	2436
10:41	ZZZZZZ	4907	39216	7453	2449
10:45	ZZZZZZ	4877	38585	7246	2434
10:50	ZZZZZZ	4704	38134	7206	2434
10:54	ZZZZZZ	4872	39440	7616	2462

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:58	ZZZZZZ	4402	35139	7368	1892
11:02	MA10212-CCV3	4661	37375	7344	2189
11:06	MA10212-CCB3	4915	39638	7454	2588
11:11	ZZZZZZ	4568	36210	7575	1970
11:15	ZZZZZZ	4558	36169	7472	1949
11:19	ZZZZZZ	4547	36091	7589	1930
11:24	ZZZZZZ	4494	36084	7392	1998
11:28	ZZZZZZ	4521	35931	7460	1970
11:32	ZZZZZZ	4505	35768	7425	1941
11:37	ZZZZZZ	4582	36647	7703	1891
11:42	MP23849-MB1	4914	40535	7719	2636
11:46	MP23849-B1	4690	38191	7466	2327
11:50	F97718-1	4696	38152	7566	2392
11:54	MA10212-CCV4	4590	37697	7562	2209
11:58	MA10212-CCB4	4860	39543	7504	2598
12:02	MP23849-D1	4720	38001	7551	2383
12:07	MP23849-SD1	4805	38957	7495	2526
12:11	MP23849-PS1	4674	37590	7474	2341
12:15	MP23849-S1	4590	37269	7540	2229
12:19	MP23849-S2	4665	37421	7604	2242
12:24	ZZZZZZ	5064	40476	8193	2277
12:28	ZZZZZZ	4919	39635	7886	2299
12:32	ZZZZZZ	4554	36784	7484	2266
12:36	ZZZZZZ	4575	37504	7460	2321
12:41	ZZZZZZ	4665	38463	7873	2272
12:45	MA10212-CCV5	4610	37623	7460	2209
12:49	MA10212-CCB5	4832	39549	7671	2592
12:53	ZZZZZZ	4382	35864	7334	2149
12:57	ZZZZZZ	4538	37165	7496	2281
13:02	ZZZZZZ	4498	36929	7493	2242
13:06	ZZZZZZ	4527	37334	7493	2305
13:10	ZZZZZZ	5217	42948	8574	2277
13:15	ZZZZZZ	4507	37190	7482	2320

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:19	ZZZZZZ	4790	39247	7672	2363
13:23	ZZZZZZ	4620	37963	7551	2380
13:27	ZZZZZZ	4733	39145	7593	2505
13:32	ZZZZZZ	4500	36767	7553	2216
13:36	MA10212-CCV6	4623	37562	7511	2234
13:40	MA10212-CCB6	4877	39867	7571	2626
13:46	ZZZZZZ	4767	38970	7608	2484
13:59	MP23852-MB1	4816	39880	7569	2616
14:04	MP23852-B1	4679	37967	7520	2340
14:08	F97561-2F	4420	35301	7330	2160
14:12	MP23852-D1	4427	35278	7323	2160
14:16	MP23852-SD1	4664	37905	7505	2390
14:21	MP23852-PS1	4389	35229	7333	2127
14:25	MP23852-S1	4468	35994	7412	2114
14:29	MA10212-CCV7	4624	37717	7537	2221
14:33	MA10212-CCB7	4841	39664	7522	2601
14:37	MP23852-S2	4446	35645	7403	2105
14:41	F97600-28	4433	36199	7369	2195
14:46	MP23852-D2	4453	36213	7456	2206
14:50	MP23852-SD2	4713	38093	7483	2431
14:54	MP23852-PS2	4458	36215	7379	2179
14:59	MP23852-S3	4445	35825	7417	2112
15:03	MP23852-S4	4470	36738	7537	2130
15:07	ZZZZZZ	4405	36092	7434	2181
15:11	ZZZZZZ	4390	35362	7338	2158
15:15	ZZZZZZ	4244	33117	7306	1876
15:20	MA10212-CCV8	4652	37806	7625	2215
15:24	MA10212-CCB8	4904	40352	7744	2619
15:29	ZZZZZZ	4150	32566	7437	1894
15:33	ZZZZZZ	4605	37363	7639	2227
15:37	ZZZZZZ	4397	34577	7535	2075
15:42	ZZZZZZ	4118	32410	7449	1883
15:46	ZZZZZZ	4557	37235	7821	2236

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:51	ZZZZZZ	4421	35160	7687	2096
15:55	ZZZZZZ	4605	38006	7840	2304
15:59	ZZZZZZ	4593	38331	7910	2309
16:03	ZZZZZZ	4562	37777	7808	2298
16:08	ZZZZZZ	4436	36196	7615	2176
16:12	MA10212-CCV9	4650	38055	7711	2220
16:16	MA10212-CCB9	4825	40309	7767	2601
16:20	ZZZZZZ	4777	39619	7832	2541
16:25	ZZZZZZ	4833	39669	7891	2515
16:29	ZZZZZZ	4702	38833	7738	2435
16:33	ZZZZZZ	4801	39924	7851	2515
16:37	ZZZZZZ	4742	39250	7872	2449
16:41	MP23852-MB2A	4917	40489	7601	2627
16:46	MP23852-MB3A	4948	40468	7848	2633
16:50	MP23853-MB1	4781	40093	7683	2565
16:54	MP23853-B1	4635	37893	7612	2300
16:58	F97679-9	4514	36454	7771	1995
17:03	MA10212-CCV10	4717	38480	7764	2232
17:07	MA10212-CCB10	4943	40937	7913	2630
17:11	MP23853-D1	4448	36100	7756	1969
17:16	MP23853-SD1	4788	38986	7897	2338
17:20	MP23853-PS1	4521	36693	7800	2004
17:24	MP23853-S1	4540	36827	7863	1973
17:29	MP23853-S2	4488	36656	7849	1991
17:33	ZZZZZZ	4623	37436	7928	2014
17:37	ZZZZZZ	4484	36088	7732	1947
17:42	ZZZZZZ	4611	37317	7819	2031
17:46	ZZZZZZ	4625	37818	8055	2029
17:51	ZZZZZZ	4702	38150	8007	2039
17:55	MA10212-CCV11	4820	39056	7812	2240
17:59	MA10212-CCB11	5046	41169	7856	2646
18:03	ZZZZZZ	4594	37107	7839	1940
18:08	ZZZZZZ	4598	37530	7839	2009

INTERNAL STANDARD SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10212
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:12	ZZZZZZ	4562	36553	7637	2001
18:17	ZZZZZZ	4570	36650	7679	1970
18:21	ZZZZZZ	4519	36681	7703	1944
18:26	ZZZZZZ	4531	36575	7733	1932
18:30	ZZZZZZ	4643	37047	7760	1978
18:35	ZZZZZZ	4632	37444	7761	1973
18:40	ZZZZZZ	4557	37096	7737	1977
18:44	ZZZZZZ	4555	37023	7568	2022
18:48	MA10212-CCV12	4807	38947	7633	2239
18:52	MA10212-CCB12	5046	41322	7773	2642
18:57	ZZZZZZ	4491	36482	7570	1963
19:01	ZZZZZZ	4627	37176	7636	2012
19:14	MA10212-CRIA2	4963	40854	7767	2570
19:18	MA10212-ICSA2	4374	34665	7367	1943
19:23	MA10212-ICSAB2	4323	34541	7304	1896
19:27	MA10212-CCV13	4717	38876	7663	2214
19:31	MA10212-CCB13	4924	40613	7569	2618

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10212 Units: ug/l

Time:			08:37		09:20		10:14		11:06	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	0.10	<10	0.40	<10	-0.30	<10	1.1	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	-0.30	<5.0	-0.40	<5.0	0.20	<5.0	0.30	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10212 Units: ug/l

Time:			11:58		12:49		13:40		14:33	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	0.80	<10	0.90	<10	1.1	<10	0.90	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	-0.20	<5.0	0.20	<5.0	-0.40	<5.0	0.10	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10212 Units: ug/l

Time: / Sample ID:			15:24 CCB8		16:16 CCB9		17:07 CCB10		17:59 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	0.40	<10	0.50	<10	0.80	<10	0.80	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	-0.70	<5.0	-0.60	<5.0	-1.0	<5.0	-0.70	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6								
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10212 Units: ug/l

Time:			18:52		19:31	
Sample ID:			CCB12		CCB13	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	15	anr			
Antimony	6.0	1.3	anr			
Arsenic	10	1.6	0.90	<10	0.70	<10
Barium	200	1	anr			
Beryllium	4.0	.5	anr			
Cadmium	5.0	.5	anr			
Calcium	1000	50	anr			
Chromium	10	1.8	anr			
Cobalt	50	.5	anr			
Copper	25	1	anr			
Iron	300	29	anr			
Lead	5.0	1.1	-1.1	<5.0	-0.30	<5.0
Magnesium	5000	74	anr			
Manganese	15	.7	anr			
Molybdenum	50	.6				
Nickel	40	.5	anr			
Potassium	10000	200	anr			
Selenium	10	2	anr			
Silver	10	.5	anr			
Sodium	10000	500	anr			
Strontium	10	.5				
Thallium	10	1.3	anr			
Tin	50	.7				
Titanium	10	.9				
Vanadium	50	.5	anr			
Zinc	20	3	anr			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10212 Units: ug/l

Time:		08:29			09:10			10:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1990	99.5	2000	1900	95.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1910	95.5	2000	1960	98.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10212 Units: ug/l

Time:		11:02			11:54			12:45	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2030	101.5	2000	2080	104.0	2000	2070	103.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10212 Units: ug/l

Time:		13:36			14:29			15:20	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2040	102.0	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	1990	99.5	2000	1990	99.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10212 Units: ug/l

Time:		16:12			17:03			17:55	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2030	101.5	2000	1980	99.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1960	98.0	2000	1910	95.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10212 Units: ug/l

Time:		18:48			19:27	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	anr					
Antimony	anr					
Arsenic	2000	1980	99.0	2000	2040	102.0
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	2000	1910	95.5	2000	1950	97.5
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10212 Units: ug/l

Time:		08:20	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	3920	98.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	3980	99.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10212 Units: ug/l

Time:			08:41		19:14	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	10.8	108.0	11.1	111.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	5.3	106.0	3.3	66.0*(a)
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100912M1.ICP Date Analyzed: 10/09/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10212 Units: ug/l

Time:			08:52		08:59		19:18		19:23	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	507000	101.4	514000	102.8	500000	100.0	515000	103.0
Antimony		1000	-0.40		960	96.0	-1.4		1040	104.0
Arsenic		1000	1.4		969	96.9	2.4		1030	103.0
Barium		500	0.70		521	104.2	0.90		522	104.4
Beryllium		500	0.0		473	94.6	0.10		440	88.0
Cadmium		1000	0.10		929	92.9	1.4		907	90.7
Calcium	500000	500000	477000	95.4	479000	95.8	442000	88.4	452000	90.4
Chromium		500	-0.10		516	103.2	-0.20		485	97.0
Cobalt		500	0.50		463	92.6	0.10		457	91.4
Copper		500	0.0		536	107.2	0.30		543	108.6
Iron	200000	200000	177000	88.5	184000	92.0	165000	82.5	174000	87.0
Lead		1000	0.20		914	91.4	-5.7		884	88.4
Magnesium	500000	500000	503000	100.6	492000	98.4	454000	90.8	455000	91.0
Manganese		500	0.50		487	97.4	0.20		461	92.2
Molybdenum		1000	0.80		863	86.3	0.40		916	91.6
Nickel		1000	0.10		863	86.3	-0.50		869	86.9
Potassium			23.5		33.5		91.3		65.5	
Selenium		1000	0.0		951	95.1	0.80		1010	101.0
Silver		1000	-0.10		1060	106.0	-0.30		1030	103.0
Sodium			86.7		83.3		143		137	
Strontium		1000	3.2		932	93.2	3.5		983	98.3
Thallium		1000	1.9		928	92.8	0.90		937	93.7
Tin		1000	0.0		841	84.1	-0.20		853	85.3
Titanium		1000	-1.2		950	95.0	-1.1		965	96.5
Vanadium		500	-0.30		474	94.8	0.0		457	91.4
Zinc		1000	0.0		845	84.5	0.40		828	82.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					10/05/12		10/05/12		10/05/12
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15						
Antimony	6.0	1.3	1.3						
Arsenic	10	1.6	2.5	-1.5	<10	0.20	<10	0.0	<10
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5						
Calcium	1000	50	50						
Chromium	10	1.8	2						
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	29	29						
Lead	5.0	1.1	1.1	-0.30	<5.0	-0.10	<5.0	-0.30	<5.0
Magnesium	5000	74	74						
Manganese	15	.7	.7						
Molybdenum	50	.6	1						
Nickel	40	.5	.5						
Potassium	10000	200	200						
Selenium	10	2	2						
Silver	10	.5	.5						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.3	1.3						
Tin	50	.7	1.8						
Titanium	10	.9	1						
Vanadium	50	.5	1						
Zinc	20	3	5						

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12					10/05/12	
Metal	F97523-4F Original	DUP	RPD	QC Limits	F97523-4F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	2330	2000	116.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	489	500	97.8	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/05/12

Metal	F97523-4F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.0	2180	2000	109.0	6.7	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	0.0	493	500	98.6	0.8	20
Magnesium	anr					
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	2020	2000	101.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	475	500	95.0	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12				10/05/12	
Metal	F97523-4F Original	SDL 1:5	%DIF	QC Limits	F97553-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Barium	anr							
Beryllium	anr							
Cadmium	anr							
Calcium	anr							
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron	anr							
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium	anr							
Manganese	anr							
Molybdenum	anr							
Nickel	anr							
Potassium	anr							
Selenium	anr							
Silver	anr							
Sodium	anr							
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	anr							

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97523-4F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	117.8	0.2	5	100	117.8	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	42.7	0.2	2.5	50	85.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97553-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	110	0.2	5	100	110.0	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	44.8	0.2	2.5	50	89.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23828: F97561-9, F97561-10, F97561-11, F97561-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/05/12		10/05/12	
Metal	RL	IDL	MDL	MB raw	MB final	MB raw	MB final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5	-0.30	<10	0.20	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29				
Lead	5.0	1.1	1.1	-0.40	<5.0	-0.20	<5.0
Magnesium	5000	74	74				
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12					10/05/12	
Metal	F97561-2 Original	DUP	RPD	QC Limits	F97561-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	2090	2000	104.5	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	475	500	95.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	F97561-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	2020	2000	101.0	3.4	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	466	500	93.2	1.9	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1940	2000	97.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	470	500	94.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12				10/05/12	
Metal	F97553-5F Original	SDL 1:5	%DIF	QC Limits	F97561-2 Original	SDL 1:1	%DIF	QC Limits
Aluminum								
Antimony								
Arsenic	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97553-5F Raw	F97553-5F Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	109.7	0.2	5	100	109.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	46.3	0.2	2.5	50	92.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97561-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	105.7	0.2	5	100	105.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	45	0.2	2.5	50	90.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23832: F97561-2, F97561-10F, F97561-11F, F97561-12F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/09/12		10/09/12		10/09/12	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15						
Antimony	6.0	1.3	1.3						
Arsenic	10	1.6	2.5	-0.70	<10	-0.10	<10	0.20	<10
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5						
Calcium	1000	50	50						
Chromium	10	1.8	2						
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	29	29						
Lead	5.0	1.1	1.1	0.0	<5.0	-0.90	<5.0	-0.50	<5.0
Magnesium	5000	74	74						
Manganese	15	.7	.7						
Molybdenum	50	.6	1						
Nickel	40	.5	.5						
Potassium	10000	200	200						
Selenium	10	2	2						
Silver	10	.5	.5						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.3	1.3						
Tin	50	.7	1.8						
Titanium	10	.9	1						
Vanadium	50	.5	1						
Zinc	20	3	5						

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/09/12					10/09/12	
Metal	F97561-2F Original	DUP	RPD	QC Limits	F97561-2F Original	MS	Spikelot MPFLICP1 % Rec		QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	2000	2000	100.0	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	471	500	94.2	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/09/12

Metal	F97561-2F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	1960	2000	98.0	2.0	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	461	500	92.2	2.1	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/09/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	2020	2000	101.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	480	500	96.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/09/12				10/09/12	
Metal	F97561-2F Original	SDL 1:5	%DIF	QC Limits	F97600-28 Original	SDL 1:5	%DIF	QC Limits
Aluminum								
Antimony								
Arsenic	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/09/12

Metal	Sample ml	Final ml	F97561-2F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	107.8	0.2	5	100	107.8	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	47.8	0.2	2.5	50	95.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23852
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/09/12

Metal	Sample ml	Final ml	F97600-28 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	104.1	0.2	5	100	104.1	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	44.5	0.2	2.5	50	89.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23852: F97561-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 10/01/12

Analyte	IDL ug/l
Aluminum	15
Antimony	1.3
Arsenic	1.6
Barium	1
Beryllium	.5
Cadmium	.5
Calcium	50
Chromium	1.8
Cobalt	.5
Copper	1
Iron	29
Lead	1.1
Magnesium	74
Manganese	.7
Molybdenum	.6
Nickel	.5
Potassium	200
Selenium	2
Silicon	5
Silver	.5
Sodium	500
Strontium	.5
Thallium	1.3
Tin	.7
Titanium	.9
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA10205,MA10212

Instrument Linear Ranges

Job Number: F97561
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA10205,MA10212

Southeast ACCUTEST LABORATORIES

11/05/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.0001

Accutest Job Number: F97561A

Sampling Date: 10/02/12

Report to:

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Total number of pages in report: **207**

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Sample Summary

CSX Transportation

Job No: F97561A

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.0001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97561-3	10/02/12	00:00	WK	10/03/12	AQ	Trip Blank Water	TRIP BLANK
F97561-4	10/02/12	09:15	WK	10/03/12	AQ	Ground Water	MW-47A (100212)
F97561-4F	10/02/12	09:15	WK	10/03/12	AQ	Groundwater Filtered	MW-47A (100212)
F97561-5	10/02/12	10:00	WK	10/03/12	AQ	Ground Water	MW-56A (100212)
F97561-5F	10/02/12	10:00	WK	10/03/12	AQ	Groundwater Filtered	MW-56A (100212)
F97561-6	10/02/12	10:40	WK	10/03/12	AQ	Ground Water	MW-56B (100212)
F97561-6F	10/02/12	10:40	WK	10/03/12	AQ	Groundwater Filtered	MW-56B (100212)
F97561-7	10/02/12	11:40	WK	10/03/12	AQ	Ground Water	MW-46A (100212)
F97561-7F	10/02/12	11:40	WK	10/03/12	AQ	Groundwater Filtered	MW-46A (100212)

Summary of Hits

Job Number: F97561A
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97561-3	**TRIP BLANK**					
No hits reported in this sample.						
F97561-4	**MW-47A (100212)**					
No hits reported in this sample.						
F97561-4F	**MW-47A (100212)**					
No hits reported in this sample.						
F97561-5	**MW-56A (100212)**					
No hits reported in this sample.						
F97561-5F	**MW-56A (100212)**					
No hits reported in this sample.						
F97561-6	**MW-56B (100212)**					
Benzene		0.0426	0.0050		mg/l	SW846 8260B
Carbazole		0.0055	0.0049		mg/l	SW846 8270D
Acenaphthene		0.0049	0.00097		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0025	0.00097		mg/l	SW846 8270D BY SIM
Naphthalene		0.0262	0.00097		mg/l	SW846 8270D BY SIM
F97561-6F	**MW-56B (100212)**					
No hits reported in this sample.						
F97561-7	**MW-46A (100212)**					
Benzene		0.0985	0.0050		mg/l	SW846 8260B
Toluene		0.0734	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0499	0.0050		mg/l	SW846 8260B
Xylene (total)		0.148	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.147	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0736	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0463	0.019		mg/l	SW846 8270D
2-Methylnaphthalene		0.141	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		2.14	0.095		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: F97561A
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/02/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

F97561-7F **MW-46A (100212)**

No hits reported in this sample.

(a) Dilution required due to high PAH levels.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97561-3 **Date Sampled:** 10/02/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/03/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10294.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (100212)		
Lab Sample ID:	F97561-4	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10295.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (100212)		
Lab Sample ID:	F97561-4	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034175.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-47A (100212)
Lab Sample ID: F97561-4 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067900.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	92% [a]		33-118%
4165-60-0	Nitrobenzene-d5	78% [a]		42-108%
321-60-8	2-Fluorobiphenyl	70% [a]		40-106%
1718-51-0	Terphenyl-d14	79% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (100212)		
Lab Sample ID:	F97561-4	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-47A (100212)		
Lab Sample ID:	F97561-4F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56A (100212)		
Lab Sample ID:	F97561-5	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10296.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (100212)		
Lab Sample ID:	F97561-5	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025920.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56A (100212)
Lab Sample ID: F97561-5 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067994.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (100212)		
Lab Sample ID:	F97561-5	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-56A (100212)
Lab Sample ID: F97561-5F
Matrix: AQ - Groundwater Filtered
Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (100212)		
Lab Sample ID:	F97561-6	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10297.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0426	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (100212)		
Lab Sample ID:	F97561-6	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025921.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0055	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (100212)		
Lab Sample ID:	F97561-6	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067995.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0049	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0025	0.00097	mg/l	
91-20-3	Naphthalene	0.0262	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (100212)		
Lab Sample ID:	F97561-6	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (100212)		
Lab Sample ID:	F97561-6F	**Date Sampled:**	10/02/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A (100212)		
Lab Sample ID:	F97561-7	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10298.D	1	10/12/12	KW	n/a	n/a	VZ460
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0985	0.0050	mg/l	
108-88-3	Toluene	0.0734	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0499	0.0050	mg/l	
1330-20-7	Xylene (total)	0.148	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (100212)		
Lab Sample ID:	F97561-7	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004533.D	4	10/11/12	FS	10/09/12	OP43901	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.147	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0736	0.019	mg/l	
132-64-9	Dibenzofuran	0.0463	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	88%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-46A (100212)
Lab Sample ID: F97561-7 **Date Sampled:** 10/02/12
Matrix: AQ - Ground Water **Date Received:** 10/03/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068056.D	100	10/16/12	MG	10/09/12	OP43902	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	ND	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.141	0.095	mg/l	
91-20-3	Naphthalene	2.14	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (100212)		
Lab Sample ID:	F97561-7	**Date Sampled:**	10/02/12
Matrix:	AQ - Ground Water	**Date Received:**	10/03/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23828

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-46A (100212)
Lab Sample ID: F97561-7F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/02/12
Date Received: 10/03/12
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97561

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6524

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days (Specify # Days ____)
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Silica Gel, only)	Total Metals (6010) (As+Pb)	Dissolved metals 6010 (As+Pb) Lab Filter and Preserve	COMMENTS	LAB USE
3	TRIP BLANK	2 VOA	———	LAB SUPPLIED ———					X				Preserved On Ice	
4	MW-47A(100212)	7	10/02/12	0915	WK	N	G	GW	X	X	X	X		
5	MW-56A(100212)	7	10/02/12	1000	WK	N	G	GW	X	X	X	X		
6	MW-56B(100212)	7	10/02/12	1040	WK	N	G	GW	X	X	X	X		
7	MW-46A(100212)	7	10/02/12	1140	WK	N	G	GW	X	X	X	X		

> WK 10/2

Relinquished By: WK	Date Time: 10/02/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * Site COCs Only (SVOCs) * Lab Filter and Preserve Dissolved Metals * Standalone Report For City	
Relinquished By: FX	Date Time:	Received By: J. Comer (ALS)	Date Time: 10.3.12 09:30		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F97561A: Chain of Custody
Page 1 of 5

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97561

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiatkowski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.0001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other

Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

METHODS FOR ANALYSIS

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs (Site COCs only) 8270 +	Metals Total 6010 (As + Pb)	Dissolved Metals 6010 (As + Pb) *	COMMENTS	LAB USE
1 TRIP BLANK	2 VOA		LAB		SUPPLIED			X				Preserved On Ice	
2 MW-34A (100212)	21	10/02/12	1625	WK	N	G	GW	X	X	X	X	*MS/MSD	

Relinquished By: Wk KC — Date Time: 10/02/12 1800 — Received By: FX
Relinquished By: FX — Date Time: — Received By: J. Comne (ALSK) — Date Time: 10-3-12 09:30
Relinquished By: — Date Time: — Received By: — Date Time:
Received By Laboratory: — Date Time: — Lab Remarks:

WK 10/3/12

Comments & Special Analytical Requirements:
* SVOCs, Site COCs ONLY
* Lab filter and Preserve Dissolved Metals

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.1 2.8 3.0

4.1 4

F97561A: Chain of Custody
Page 2 of 5

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97561

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwiatoski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6560 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code: 1 D 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270/Site COCs only	Metals Total (As + Pb) 6010	Dissolved metals 6010 (As + Pb) w/Lab Filter + Preserv	COMMENTS	LAB USE
8	TRIP BLANK	2 VOAs	———	———	LAB SUPPLIED	———			X				LAB SUPPLIED	
9	MW-37C (100212)	7 (one 6)	10/02/12	1315	WK	N	G	GW	X	X	X			
10	MW-37B (100212)	7	10/02/12	1400	WK	N	G	GW	X	X	X	X		
11	MW-37A (100212)	7	10/02/12	1430	WK	N	G	GW	X	X	X	X		
12	MW-26A (100212)	7	10/02/12	1520	WK	N	G	GW	X	X	X	X		

Preserved On Ice

WK 10/2/12

	Date Time	Received By	Date Time
Relinquished By:	10/02/12 1800	FX	
Relinquished By: FX		J Coppe (ALSE) 04:30	
Relinquished By:			
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements:
#Site COCs Only for SVOCs
#Lab Filter and Preserve dissolved Metals

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97561 CLIENT: ARCADIS PROJECT: 94IS829

DATE/TIME RECEIVED: 10.3.12 09:35 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4948

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 3
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 8

TEMPERATURE INFORMATION

- [ ] IR THERM ID_____ CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.0 2.1 2.6
- [ ] CORRECTED TEMPS: 2.1 2.3 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JE 10-3-12 REVIEWER SIGNATURE/DATE 10/03/12

NF 12/10

receipt confirmation 122910.xls

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexy)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

4.1

4

F97561A: Chain of Custody
Page 5 of 5

Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ460-MB	Z10279.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-3, F97561-4, F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	110%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	103%	84-120%

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ460-BS	Z10278.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-3, F97561-4, F97561-5, F97561-6, F97561-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.0	96	83-124
100-41-4	Ethylbenzene	25	25.1	100	87-118
108-88-3	Toluene	25	24.2	97	86-116
1330-20-7	Xylene (total)	75	77.7	104	86-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	76-127%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F97561-2MS	Z10304.D	1	10/12/12	KW	n/a	n/a	VZ460
F97561-2MSD	Z10305.D	1	10/12/12	KW	n/a	n/a	VZ460
F97561-2	Z10293.D	1	10/12/12	KW	n/a	n/a	VZ460

The QC reported here applies to the following samples: **Method:** SW846 8260B

F97561-3, F97561-4, F97561-5, F97561-6, F97561-7

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	79.7		25	106	105	104	97	2	83-124/11
100-41-4	Ethylbenzene	68.6		25	94.1	102	91.0	90	3	87-118/10
108-88-3	Toluene	19.5		25	46.1	106	44.8	101	3	86-116/10
1330-20-7	Xylene (total)	124		75	204	107	197	97	3	86-120/10

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
1868-53-7	Dibromofluoromethane	101%	102%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	97%	100%	76-127%
2037-26-5	Toluene-D8	98%	98%	97%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	99%	84-120%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ455-BFB
Lab File ID: Z10164.D
Instrument ID: GCMSZ
Injection Date: 10/09/12
Injection Time: 15:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	68184	22.9		Pass
75	30.0 - 60.0% of mass 95	142744	48.0		Pass
95	Base peak, 100% relative abundance	297152	100.0		Pass
96	5.0 - 9.0% of mass 95	19223	6.47		Pass
173	Less than 2.0% of mass 174	1657	0.56	(0.60) [a]	Pass
174	50.0 - 100.0% of mass 95	277227	93.3		Pass
175	5.0 - 9.0% of mass 174	20155	6.78	(7.27) [a]	Pass
176	95.0 - 101.0% of mass 174	269184	90.6	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	16892	5.68	(6.28) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ455-IC455	Z10165.D	10/09/12	15:22	00:21	Initial cal 1
VZ455-IC455	Z10166.D	10/09/12	15:43	00:42	Initial cal 2
VZ455-IC455	Z10167.D	10/09/12	16:03	01:02	Initial cal 3
VZ455-ICC455	Z10168.D	10/09/12	16:24	01:23	Initial cal 4
VZ455-IC455	Z10169.D	10/09/12	16:45	01:44	Initial cal 5
VZ455-IC455	Z10170.D	10/09/12	17:05	02:04	Initial cal 6
VZ455-ICV455	Z10171.D	10/09/12	17:26	02:25	Initial cal verification 4
VZ455-BS	Z10172.D	10/09/12	17:47	02:46	Blank Spike
VZ455-MB	Z10173.D	10/09/12	18:07	03:06	Method Blank
ZZZZZZ	Z10174.D	10/09/12	18:28	03:27	(unrelated sample)
F97363-2	Z10175.D	10/09/12	18:48	03:47	(used for QC only; not part of job F97561A)
ZZZZZZ	Z10176.D	10/09/12	19:09	04:08	(unrelated sample)
ZZZZZZ	Z10177.D	10/09/12	19:30	04:29	(unrelated sample)
ZZZZZZ	Z10178.D	10/09/12	19:50	04:49	(unrelated sample)
ZZZZZZ	Z10179.D	10/09/12	20:11	05:10	(unrelated sample)
ZZZZZZ	Z10180.D	10/09/12	20:32	05:31	(unrelated sample)
ZZZZZZ	Z10181.D	10/09/12	20:53	05:52	(unrelated sample)
ZZZZZZ	Z10182.D	10/09/12	21:13	06:12	(unrelated sample)
ZZZZZZ	Z10183.D	10/09/12	21:34	06:33	(unrelated sample)
ZZZZZZ	Z10184.D	10/09/12	21:55	06:54	(unrelated sample)
ZZZZZZ	Z10185.D	10/09/12	22:15	07:14	(unrelated sample)
ZZZZZZ	Z10186.D	10/09/12	22:36	07:35	(unrelated sample)
ZZZZZZ	Z10187.D	10/09/12	22:57	07:56	(unrelated sample)
ZZZZZZ	Z10188.D	10/09/12	23:17	08:16	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ455-BFB	**Injection Date:**	10/09/12
Lab File ID:	Z10164.D	**Injection Time:**	15:01
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z10189.D	10/09/12	23:38	08:37	(unrelated sample)
ZZZZZZ	Z10190.D	10/09/12	23:59	08:58	(unrelated sample)
ZZZZZZ	Z10191.D	10/10/12	00:19	09:18	(unrelated sample)
ZZZZZZ	Z10192.D	10/10/12	00:40	09:39	(unrelated sample)
ZZZZZZ	Z10193.D	10/10/12	01:00	09:59	(unrelated sample)
F97363-2MS	Z10194.D	10/10/12	01:21	10:20	Matrix Spike
F97363-2MSD	Z10195.D	10/10/12	01:42	10:41	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ460-BFB
Lab File ID: Z10276.D
Instrument ID: GCMSZ
Injection Date: 10/12/12
Injection Time: 08:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	60619	24.4		Pass
75	30.0 - 60.0% of mass 95	123261	49.6		Pass
95	Base peak, 100% relative abundance	248533	100.0		Pass
96	5.0 - 9.0% of mass 95	16851	6.78		Pass
173	Less than 2.0% of mass 174	1146	0.46	(0.51) [a]	Pass
174	50.0 - 100.0% of mass 95	223744	90.0		Pass
175	5.0 - 9.0% of mass 174	15175	6.11	(6.78) [a]	Pass
176	95.0 - 101.0% of mass 174	213867	86.1	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	13810	5.56	(6.46) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ460-CC455	Z10277.D	10/12/12	09:06	00:21	Continuing cal 4
VZ460-BS	Z10278.D	10/12/12	09:28	00:43	Blank Spike
VZ461-BS	Z10278.D	10/12/12	09:28	00:43	Blank Spike
VZ460-MB	Z10279.D	10/12/12	09:49	01:04	Method Blank
VZ461-MB	Z10279.D	10/12/12	09:49	01:04	Method Blank
ZZZZZZ	Z10281.D	10/12/12	10:37	01:52	(unrelated sample)
ZZZZZZ	Z10282.D	10/12/12	10:58	02:13	(unrelated sample)
F97697-1	Z10284.D	10/12/12	11:39	02:54	(used for QC only; not part of job F97561A)
F97697-1MS	Z10285.D	10/12/12	12:00	03:15	Matrix Spike
F97697-1MSD	Z10286.D	10/12/12	12:20	03:35	Matrix Spike Duplicate
ZZZZZZ	Z10287.D	10/12/12	12:44	03:59	(unrelated sample)
ZZZZZZ	Z10288.D	10/12/12	13:04	04:19	(unrelated sample)
ZZZZZZ	Z10290.D	10/12/12	13:45	05:00	(unrelated sample)
ZZZZZZ	Z10291.D	10/12/12	14:06	05:21	(unrelated sample)
ZZZZZZ	Z10292.D	10/12/12	14:27	05:42	(unrelated sample)
F97561-2	Z10293.D	10/12/12	14:47	06:02	(used for QC only; not part of job F97561A)
F97561-3	Z10294.D	10/12/12	15:08	06:23	TRIP BLANK
F97561-4	Z10295.D	10/12/12	15:29	06:44	MW-47A (100212)
F97561-5	Z10296.D	10/12/12	15:50	07:05	MW-56A (100212)
F97561-6	Z10297.D	10/12/12	16:11	07:26	MW-56B (100212)
F97561-7	Z10298.D	10/12/12	16:31	07:46	MW-46A (100212)
ZZZZZZ	Z10299.D	10/12/12	16:52	08:07	(unrelated sample)
ZZZZZZ	Z10300.D	10/12/12	17:13	08:28	(unrelated sample)
ZZZZZZ	Z10301.D	10/12/12	17:34	08:49	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	VZ460-BFB	**Injection Date:**	10/12/12
Lab File ID:	Z10276.D	**Injection Time:**	08:45
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z10302.D	10/12/12	17:55	09:10	(unrelated sample)
ZZZZZZ	Z10303.D	10/12/12	18:15	09:30	(unrelated sample)
F97561-2MS	Z10304.D	10/12/12	18:36	09:51	Matrix Spike
F97561-2MSD	Z10305.D	10/12/12	18:56	10:11	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VZ460-CC455	**Injection Date:**	10/12/12
Lab File ID:	Z10277.D	**Injection Time:**	09:06
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1071668	7.82	836261	10.92	476980	13.28	94823	5.32
Check Std [b]	942161	7.81	756710	10.92	457925	13.28	76630	5.32
Upper Limit [c]	1884322	8.31	1513420	11.42	915850	13.78	153260	5.82
Lower Limit [d]	471081	7.31	378355	10.42	228963	12.78	38315	4.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VZ460-BS	1040779	7.82	847938	10.92	499090	13.28	85211	5.32
VZ461-BS	1040779	7.82	847938	10.92	499090	13.28		
VZ460-MB	972371	7.81	746753	10.92	402559	13.28	76763	5.32
VZ461-MB	972371	7.81	746753	10.92	402559	13.28		
ZZZZZZ	955907	7.82	717654	10.92	384154	13.28		
ZZZZZZ	900345	7.81	681060	10.92	362720	13.28		
F97697-1	927783	7.81	703506	10.92	421262	13.28		
F97697-1MS	1207093	7.82	958483	10.92	581917	13.28		
F97697-1MSD	1483746	7.82	1165393	10.92	704839	13.28		
ZZZZZZ	1562654	7.82	1251748	10.92	794698	13.28	141136	5.32
ZZZZZZ	1652253	7.82	1312871	10.92	754460	13.28	126895	5.32
ZZZZZZ	1630919	7.82	1300989	10.92	732695	13.28	129396	5.32
ZZZZZZ	1566372	7.82	1222773	10.92	693292	13.28	119096	5.32
ZZZZZZ	1518942	7.82	1190420	10.92	666644	13.28	115491	5.32
F97561-2	1526612	7.81	1190021	10.92	736974	13.28	108780	5.32
F97561-3	1538827	7.82	1198815	10.92	676331	13.28	115965	5.31
F97561-4	1483801	7.82	1178993	10.92	653503	13.28	114992	5.32
F97561-5	1466380	7.82	1128091	10.92	638933	13.28	119379	5.31
F97561-6	1414211	7.81	1083583	10.92	625447	13.28	110622	5.31
F97561-7	1407811	7.82	1085457	10.92	684373	13.28	113514	5.32
ZZZZZZ	1462766	7.82	1145687	10.92	639297	13.28	120482	5.32
ZZZZZZ	1448734	7.81	1133954	10.92	717483	13.28	126219	5.32
ZZZZZZ	1551693	7.81	1191160	10.92	701197	13.28	126568	5.31
ZZZZZZ	1497299	7.82	1161443	10.92	650133	13.28	126986	5.32
ZZZZZZ	1458600	7.82	1134950	10.92	732021	13.28	150178	5.32
F97561-2MS	1669821	7.81	1309524	10.92	813829	13.28	118489	5.32
F97561-2MSD	1723522	7.82	1362506	10.92	856973	13.29	135542	5.32

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

Volatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VZ460-CC455	**Injection Date:**	10/12/12
Lab File ID:	Z10277.D	**Injection Time:**	09:06
Instrument ID:	GCMSZ	**Method:**	SW846 8260B

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Initial Cal is: VZ455-ICC455 Z10168.D 10/09/12 16:24
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F97561-3	Z10294.D	101.0	99.0	98.0	99.0
F97561-4	Z10295.D	102.0	100.0	98.0	100.0
F97561-5	Z10296.D	101.0	100.0	99.0	99.0
F97561-6	Z10297.D	101.0	101.0	99.0	99.0
F97561-7	Z10298.D	100.0	101.0	98.0	98.0
F97561-2MS	Z10304.D	101.0	96.0	98.0	98.0
F97561-2MSD	Z10305.D	102.0	97.0	98.0	98.0
VZ460-BS	Z10278.D	104.0	107.0	97.0	100.0
VZ460-MB	Z10279.D	106.0	110.0	100.0	103.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	87-116%
S2 = 1,2-Dichloroethane-D4	76-127%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	84-120%

Initial Calibration Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ455-ICC455
Lab FileID: Z10168.D

Response Factor Report MSVOA15

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Initial Calibration

Calibration Files
1 =Z10165.D 2 =Z10166.D 3 =Z10167.D 4 =Z10168.D
5 =Z10169.D 6 =Z10170.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------		
2)		Dichlorodifluoromet	0.478	0.496	0.532	0.572	0.546	0.540	0.527	6.54
3)	P	Chloromethane	0.693	0.666	0.741	0.773	0.754	0.744	0.728	5.53
4)	C	Vinyl Chloride	0.457	0.458	0.523	0.560	0.551	0.550	0.516	9.16
5)		Bromomethane	0.273	0.255	0.274	0.277	0.259	0.249	0.265	4.39
6)		Chloroethane	0.239	0.219	0.241	0.240	0.225	0.212	0.229	5.31
7)		Trichlorofluorometh	0.672	0.637	0.704	0.745	0.732	0.736	0.704	6.01
8)		Ethyl Ether	0.376	0.367	0.438	0.445	0.444	0.436	0.418	8.64
9)		1,2-Dichlorotrifluo	0.528	0.515	0.622	0.613	0.614	0.580	0.579	8.11
10)		Freon 113	0.442	0.425	0.511	0.509	0.516	0.487	0.482	8.11
11)	C	1,1-Dichloroethene	0.589	0.563	0.715	0.727	0.751	0.714	0.677	11.70
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992								
		Response Ratio = 0.00000 + 0.75643 *A + -0.01844 *A^2								
12)		Acetone	0.137	0.112	0.120	0.122	0.120	0.115	0.121	7.19
13)		Iodomethane	0.749	0.682	0.860	0.892	0.902	0.891	0.829	11.05
14)		Carbon Disulfide	1.284	1.213	1.518	1.540	1.549	1.464	1.428	10.09
15)		Methyl acetate	0.320	0.314	0.355	0.364	0.361	0.353	0.345	6.30
16)		Methylene Chloride	1.672	0.932	0.845	0.832	0.809	0.789	0.980	34.99
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 0.86133 *A + -0.03663 *A^2								
17)		Methyl Tert Butyl E	0.991	1.047	1.211	1.252	1.250	1.238	1.165	9.90
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.24868 *A + -0.00418 *A^2								
18)		trans-1,2-Dichloroe	0.589	0.585	0.728	0.747	0.754	0.734	0.689	11.59
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								
		Response Ratio = 0.00000 + 0.75821 *A + -0.01054 *A^2								
19)		Acrylonitrile	0.155	0.167	0.181	0.187	0.186	0.183	0.176	7.21
20)		Hexane	0.949	0.940	1.167	1.210	1.234	1.187	1.115	12.00
21)		Di-isopropyl ether	1.692	1.522	1.861	1.957	1.985	1.972	1.832	10.23
22)		Vinyl acetate	0.734	0.863	1.003	1.064	1.066	1.026	0.959	13.89
23)	P	1,1-Dichloroethane	0.755	0.752	0.897	0.901	0.908	0.881	0.849	8.77
24)		ETBE	1.207	1.283	1.623	1.711	1.733	1.726	1.547	15.41
		---- Linear regr., Force(0,0) ---- Coefficient = 0.9999								
		Response Ratio = 0.00000 + 1.72326 *A								
25)		2-Butanone	0.150	0.170	0.207	0.214	0.212	0.207	0.193	13.77
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998								
		Response Ratio = 0.00000 + 0.21615 *A + -0.00083 *A^2								
26)		2,2-Dichloropropane	0.522	0.483	0.605	0.618	0.633	0.609	0.578	10.47
27)		cis-1,2-Dichloroeth	0.361	0.373	0.456	0.475	0.480	0.469	0.436	12.39
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997								

Initial Calibration Summary

Job Number: F97561A **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN


```
              Response Ratio = 0.00000 + 0.47879 *A + -0.00395 *A^2

28)     Bromochloromethane  0.227 0.245 0.277 0.286 0.287 0.277 0.267   9.26
29)     Tetrahydrofuran     0.170 0.121 0.135 0.139 0.140 0.137 0.140  11.52
30) C   Chloroform          0.815 0.752 0.864 0.876 0.870 0.844 0.837   5.62
31) S   Dibromofluoromethan 0.312 0.355 0.381 0.312 0.389 0.404 0.359  11.09
            ---- Linear regression ----  Coefficient =  0.9992
              Response Ratio = -0.18524 + 0.49466 *A

32)     1,1,1-Trichloroetha 0.588 0.586 0.738 0.749 0.773 0.750 0.697  12.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.76428 *A + -0.00513 *A^2

33)     Cyclohexane         0.684 0.714 0.943 0.985 1.033 0.985 0.891  17.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 1.01299 *A + -0.00922 *A^2

34)     Carbon Tetrachlorid 0.548 0.558 0.684 0.722 0.744 0.713 0.662  13.07
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.73857 *A + -0.00989 *A^2

35)     1,1-Dichloropropene 0.424 0.437 0.562 0.581 0.596 0.569 0.528  14.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.59910 *A + -0.01295 *A^2

36) S   1,2-Dichloroethane- 0.372 0.419 0.447 0.362 0.457 0.464 0.420  10.45
            ---- Linear regression ----  Coefficient =  0.9993
              Response Ratio = -0.19882 + 0.56600 *A

37)     TAME                0.854 0.874 1.153 1.216 1.230 1.213 1.090  16.24
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.21645 *A

38)     Benzene             1.370 1.314 1.590 1.621 1.621 1.549 1.511   8.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.68100 *A + -0.06210 *A^2

39)     1,2-Dichloroethane  0.692 0.638 0.736 0.737 0.735 0.718 0.709   5.53
40)     Trichloroethene     0.421 0.380 0.465 0.463 0.467 0.445 0.440   7.77
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.48372 *A + -0.01810 *A^2

41)     Methylcyclohexane   0.539 0.575 0.743 0.765 0.775 0.725 0.687  15.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.80634 *A + -0.03759 *A^2

42) C   1,2-Dichloropropane 0.417 0.406 0.492 0.503 0.513 0.500 0.472  10.01
43)     Dibromomethane      0.292 0.278 0.314 0.320 0.321 0.314 0.307   5.68
44)     Bromodichloromethan 0.505 0.515 0.619 0.636 0.647 0.633 0.592  10.90
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.64107 *A + -0.00248 *A^2

45)     2-Chloroethyl vinyl 0.218 0.245 0.322 0.344 0.343 0.332 0.301  18.30
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.33584 *A

46)     2-Nitropropane      0.097 0.089 0.112 0.118 0.117 0.112 0.108  11.24
47)     cis-1,3-Dichloropro 0.547 0.581 0.718 0.768 0.774 0.759 0.691  14.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.76564 *A + -0.00179 *A^2
```

Initial Calibration Summary

Job Number: F97561A **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
48)     4-Methyl-2-pentanon 0.377 0.399 0.493 0.515 0.510 0.487 0.464  12.86

49) I   Chlorobenzene-d5      ----------------ISTD--------------------
50) S   Toluene-d8          1.269 1.444 1.514 1.238 1.568 1.616 1.442  10.89
            ---- Linear regression ----  Coefficient =  0.9997
              Response Ratio = -0.72539 + 1.97258 *A

51) C   Toluene             2.000 1.919 2.255 2.275 2.329 2.260 2.173   7.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 2.32939 *A + -0.02916 *A^2

52)     trans-1,3-Dichlorop 0.674 0.687 0.834 0.875 0.888 0.876 0.806  12.28
53)     1,1,2-Trichloroetha 0.440 0.401 0.445 0.449 0.446 0.432 0.435   4.08
54)     Tetrachloroethene   0.575 0.556 0.670 0.680 0.708 0.677 0.644   9.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.70391 *A + -0.01082 *A^2

55)     2-hexanone          0.283 0.332 0.421 0.443 0.449 0.439 0.394  17.73
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.44191 *A

56)     1,3-Dichloropropane 0.778 0.731 0.856 0.874 0.886 0.867 0.832   7.55
57)     Dibromochloromethan 0.576 0.546 0.668 0.696 0.719 0.719 0.654  11.47
58)     1,2-Dibromoethane   0.449 0.465 0.535 0.554 0.568 0.561 0.522   9.94
59)     1-Chlorohexane      0.506 0.563 0.787 0.824 0.878 0.829 0.731  21.38
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.84143 *A

60) P   Chlorobenzene       1.393 1.335 1.529 1.559 1.567 1.502 1.481   6.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.61293 *A + -0.05155 *A^2

61) C   Ethylbenzene        2.109 2.116 2.602 2.631 2.686 2.588 2.455  10.90
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 2.70884 *A + -0.05325 *A^2

62)     1,1,1,2-Tetrachloro 0.530 0.537 0.642 0.653 0.662 0.654 0.613  10.09
63)     m,p-Xylene          1.441 1.524 1.926 1.996 2.049 1.976 1.819  14.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 2.03741 *A + -0.01195 *A^2

64)     o-Xylene            1.328 1.387 1.835 1.966 2.051 1.991 1.760  18.19
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.97181 *A + 0.01781 *A^2

65)     Styrene             0.909 1.025 1.481 1.606 1.667 1.655 1.391  24.20
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.56624 *A + 0.04926 *A^2

66) P   Bromoform           0.389 0.396 0.498 0.520 0.546 0.545 0.482  14.90

67) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
68)     Isopropylbenzene    2.861 2.978 4.086 4.308 4.395 4.238 3.811  18.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 4.37375 *A + -0.05326 *A^2

69)     Cyclohexanone       0.015 0.022 0.024 0.025 0.024 0.024 0.022  17.84
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.02425 *A
```

Initial Calibration Summary

Job Number: F97561A **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
70) S   4-Bromofluorobenzen 0.865 0.998 1.051 0.840 1.109 1.167 1.005  13.04
            ---- Linear regression ----  Coefficient =  0.9979
              Response Ratio = -0.62142 + 1.45931 *A

71) P   1,1,2,2-Tetrachloro 1.334 1.181 1.279 1.266 1.214 1.161 1.239   5.29
72)     trans-1,4-Dichloro- 0.265 0.298 0.367 0.400 0.412 0.427 0.362  18.26
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.37320 *A + 0.02701 *A^2

73)     n-Propylbenzene     4.020 4.010 5.185 5.270 5.373 5.185 4.840  13.28
74)     Bromobenzene        1.172 1.178 1.391 1.376 1.377 1.373 1.311   8.06
75)     1,2,3-Trichloroprop 0.315 0.327 0.359 0.359 0.352 0.343 0.343   5.27
76)     1,3,5-Trimethylbenz 2.588 2.915 3.848 4.048 4.009 3.834 3.540  17.67
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 4.15284 *A + -0.14899 *A^2

77)     2-Chlorotoluene     2.862 2.914 3.692 3.733 3.697 3.575 3.412  12.01
78)     4-Chlorotoluene     2.327 2.545 3.188 3.295 3.354 3.327 3.006  14.99
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 3.32738 *A

79)     tert-Butylbenzene   1.457 1.568 2.124 2.210 2.225 2.121 1.951  17.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 2.27883 *A + -0.07200 *A^2

80)     1,2,4-Trimethylbenz 2.500 2.957 4.014 4.164 4.140 3.974 3.625  19.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 4.26997 *A + -0.13802 *A^2

81)     sec-Butylbenzene    3.051 3.603 4.871 5.073 5.050 4.749 4.399  19.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 5.29917 *A + -0.25809 *A^2

82)     4-Isopropyltoluene  2.353 2.853 4.092 4.254 4.274 4.066 3.648  22.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 4.39195 *A + -0.14908 *A^2

83)     1,3-Dichlorobenzene 2.118 2.027 2.432 2.479 2.496 2.421 2.329   8.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2.53311 *A + -0.05092 *A^2

84)     1,4-Dichlorobenzene 2.431 2.407 2.775 2.766 2.748 2.690 2.636   6.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 2.82295 *A + -0.06440 *A^2

85)     Benzyl Chloride     0.365 0.394 0.497 0.527 0.523 0.501 0.468  14.93
86)     n-Butylbenzene      0.764 0.761 1.066 1.141 1.139 1.074 0.991  18.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.17996 *A + -0.04885 *A^2

87)     1,2-Dichlorobenzene 2.057 2.065 2.401 2.453 2.404 2.272 2.275   7.76
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 2.57158 *A + -0.14459 *A^2

88)     1,2-Dibromo-3-Chlor 0.198 0.159 0.181 0.180 0.155 0.126 0.167  15.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.21227 *A + -0.04263 *A^2

89)     1,2,4-Trichlorobenz 1.363 1.401 1.747 1.750 1.423 1.112 1.466  16.76
```

Initial Calibration Summary

Job Number: F97561A **Sample:** VZ455-ICC455
Account: CSXT CSX Transportation **Lab FileID:** Z10168.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 2.09156 *A + -0.48666 *A^2

90)     Hexachlorobutadiene 0.809 0.829 1.003 1.011 0.910 0.767 0.888  11.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.16208 *A + -0.19455 *A^2

91)     Naphthalene         2.003 2.137 2.826 2.875 2.177 1.657 2.279  21.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
              Response Ratio = 0.00000 + 3.44434 *A + -0.89294 *A^2

92)     1,2,3-Trichlorobenz 1.218 1.208 1.472 1.398 1.058 0.797 1.192  20.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 1.71380 *A + -0.45912 *A^2


93) I   Tert Butyl alcohol-d1 ----------------ISTD--------------------
94)     Acrolein            3.035 2.699 2.894 3.052 3.237 3.270 3.031   7.06
95)     Tert-Butyl Alcohol  1.905 2.015 1.945 2.006 1.962 1.915 1.958   2.34
96)     Tert amyl alcohol   1.400 1.350 1.460 1.590 1.574 1.565 1.490   6.81
97)     1,4-Dioxane         0.037 0.096 0.123 0.129 0.135 0.147 0.111  35.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.11301 *A + 0.00419 *A^2

------------------------------------------------------------------------------
(#) = Out of Range

          8260.M            Wed Oct 10 09:23:01 2012
```

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Sample: VZ455-ICV455
Lab FileID: Z10171.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100912\Z10171.D Vial: 7
Acq On : 9 Oct 2012 5:26 pm Operator: KarenW
Sample : ICV455-4 Inst : MSVOA15
Misc : MS22299,VZ455,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	123	0.00	7.82
2		Dichlorodifluoromethane	0.527	0.532	-0.9	115	0.00	2.63
3	P	Chloromethane	0.728	0.744	-2.2	118	0.00	2.85
4	C	Vinyl Chloride	0.516	0.559	-8.3	123	-0.01	2.99
5		Bromomethane	0.265	0.273	-3.0	121	-0.01	3.43
6		Chloroethane	0.229	0.235	-2.6	121	-0.01	3.58
7		Trichlorofluoromethane	0.704	0.740	-5.1	122	-0.01	3.80
8		Ethyl Ether	0.418	0.411	1.7	114	-0.01	4.11
9		1,2-Dichlorotrifluoroetha	0.579	0.576	0.5	116	-0.01	4.35
10		Freon 113	0.482	0.469	2.7	113	0.00	4.46
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	42.413	-6.0	133	0.00	4.40
			AvgRF	CCRF	%Dev			
12		Acetone	0.121	0.127	-5.0	129	0.00	5.10
13		Iodomethane	0.829	0.834	-0.6	115	-0.01	4.59
14		Carbon Disulfide	1.428	1.314	8.0	105	-0.01	4.47
15		Methyl acetate	0.345	0.337	2.3	114	0.00	5.22
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	39.919	0.2	123	0.00	5.07
17		Methyl Tert Butyl Ether	40.000	37.337	6.7	114	0.00	5.35
18		trans-1,2-Dichloroethene	40.000	40.347	-0.9	125	0.00	5.25
			AvgRF	CCRF	%Dev			
19		Acrylonitrile	0.176	0.172	2.3	113	0.00	5.97
20		Hexane	1.115	1.127	-1.1	115	-0.01	5.32
21		Di-isopropyl ether	1.832	1.830	0.1	115	0.00	5.74
22		Vinyl acetate	0.959	0.874	8.9	101	0.00	6.16
23	P	1,1-Dichloroethane	0.849	0.914	-7.7	125	0.00	5.94
			Amount	Calc.	%Drift			
24		ETBE	40.000	36.303	9.2	113	0.00	6.15
25		2-Butanone	200.000	203.196	-1.6	124	0.00	7.08
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.578	0.621	-7.4	124	0.00	6.65
			Amount	Calc.	%Drift			
27		cis-1,2-Dichloroethene	40.000	41.134	-2.8	127	0.00	6.52

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ455-ICV455
Lab FileID: Z10171.D

			AvgRF	CCRF	%Dev			
28		Bromochloromethane	0.267	0.267	0.0	115	0.00	6.74
29		Tetrahydrofuran	0.140	0.126	10.0	112	0.00	6.97
30	C	Chloroform	0.837	0.868	-3.7	122	0.00	6.78
			Amount	Calc.	%Drift			
31	S	Dibromofluoromethane	50.000	50.122	-0.2	123	0.00	6.98
32		1,1,1-Trichloroethane	40.000	40.191	-0.5	126	0.00	7.04
33		Cyclohexane	40.000	37.546	6.1	118	0.00	6.77
34		Carbon Tetrachloride	40.000	40.780	-2.0	127	0.00	6.97
35		1,1-Dichloropropene	40.000	41.071	-2.7	128	0.00	7.16
36	S	1,2-Dichloroethane-d4	50.000	49.557	0.9	123	0.00	7.54
37		TAME	40.000	38.022	4.9	117	0.00	7.49
38		Benzene	40.000	40.638	-1.6	126	0.00	7.41
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.709	0.748	-5.5	125	0.00	7.61
			Amount	Calc.	%Drift			
40		Trichloroethene	40.000	40.575	-1.4	127	0.00	7.99
41		Methylcyclohexane	40.000	36.931	7.7	116	0.00	8.01
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.472	0.524	-11.0	128	0.00	8.52
43		Dibromomethane	0.307	0.319	-3.9	123	0.00	8.42
			Amount	Calc.	%Drift			
44		Bromodichloromethane	40.000	40.805	-2.0	126	0.00	8.56
45		2-Chloroethyl vinyl ether	200.000	184.731	7.6	111	0.00	9.08
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.108	0.105	2.8	110	0.00	9.64
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	38.577	3.6	118	0.00	9.18
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.464	0.477	-2.8	114	0.00	9.75
49	I	Chlorobenzene-d5	1.000	1.000	0.0	123	0.00	10.92
			Amount	Calc.	%Drift			
50	S	Toluene-d8	50.000	49.902	0.2	124	0.00	9.37
51	C	Toluene	40.000	41.036	-2.6	128	0.00	9.42
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.806	0.900	-11.7	127	0.00	9.81
53		1,1,2-Trichloroethane	0.435	0.449	-3.2	123	0.00	9.98
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	41.504	-3.8	130	0.00	9.82
55		2-hexanone	200.000	184.581	7.7	113	0.00	10.57
			AvgRF	CCRF	%Dev			
56		1,3-Dichloropropane	0.832	0.877	-5.4	123	0.00	10.26
57		Dibromochloromethane	0.654	0.728	-11.3	129	0.00	10.17
58		1,2-Dibromoethane	0.522	0.574	-10.0	127	0.00	10.44
			Amount	Calc.	%Drift			
59		1-Chlorohexane	40.000	37.288	6.8	117	0.00	10.87

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ455-ICV455
Lab FileID: Z10171.D

60	P	Chlorobenzene	40.000	43.187	-8.0	134	0.00	10.94
61	C	Ethylbenzene	40.000	40.656	-1.6	127	0.00	10.94
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.613	0.679	-10.8	128	0.00	10.99
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	84.355	-5.4	131	0.00	11.08
64		o-Xylene	40.000	43.530	-8.8	135	0.00	11.52
65		Styrene	40.000	40.859	-2.1	126	0.00	11.56
			AvgRF	CCRF	%Dev			
66	P	Bromoform	0.482	0.526	-9.1	124	0.00	11.63
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	13.28
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	44.385	-11.0	135	0.00	11.82
69		Cyclohexanone	200.000	216.654	-8.3	126	0.00	12.54
70	S	4-Bromofluorobenzene	50.000	50.385	-0.8	123	0.00	12.13
			AvgRF	CCRF	%Dev			
71	P	1,1,2,2-Tetrachloroethane	1.239	1.223	1.3	117	0.00	12.30
			Amount	Calc.	%Drift			
72		trans-1,4-Dichloro-2-Bute	40.000	37.101	7.2	111	0.00	12.48
			AvgRF	CCRF	%Dev			
73		n-Propylbenzene	4.840	5.801	-19.9	134	0.00	12.24
74		Bromobenzene	1.311	1.457	-11.1	129	0.00	12.27
75		1,2,3-Trichloropropane	0.343	0.363	-5.8	123	0.00	12.47
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	40.520	-1.3	123	0.00	12.42
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	3.412	3.971	-16.4	129	0.00	12.43
			Amount	Calc.	%Drift			
78		4-Chlorotoluene	40.000	44.769	-11.9	137	0.00	12.60
79		tert-Butylbenzene	40.000	43.753	-9.4	133	0.00	12.77
80		1,2,4-Trimethylbenzene	40.000	40.110	-0.3	122	0.00	12.84
81		sec-Butylbenzene	40.000	43.574	-8.9	132	0.00	12.95
82		4-Isopropyltoluene	40.000	42.539	-6.3	130	0.00	13.09
83		1,3-Dichlorobenzene	40.000	43.445	-8.6	132	0.00	13.22
84		1,4-Dichlorobenzene	40.000	41.246	-3.1	125	0.00	13.30
			AvgRF	CCRF	%Dev			
85		Benzyl Chloride	0.468	0.452	3.4	104	0.00	13.53
			Amount	Calc.	%Drift			
86		n-Butylbenzene	40.000	41.151	-2.9	125	0.00	13.52
87		1,2-Dichlorobenzene	40.000	43.944	-9.9	133	0.00	13.73
88		1,2-Dibromo-3-Chloropropa	40.000	40.382	-1.0	121	0.00	14.46
89		1,2,4-Trichlorobenzene	40.000	44.589	-11.5	128	0.00	15.05
90		Hexachlorobutadiene	40.000	45.291	-13.2	134	0.00	15.00
91		Naphthalene	40.000	45.689	-14.2	127	0.00	15.34
92		1,2,3-Trichlorobenzene	40.000	46.248	-15.6	130	0.00	15.51

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ455-ICV455
Lab FileID: Z10171.D

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	125	0.00	5.32
94		Acrolein	3.031	2.658	12.3	109	0.00	4.77
95		Tert-Butyl Alcohol	1.958	2.023	-3.3	126	0.00	5.39
96		Tert amyl alcohol	1.490	1.574	-5.6	124	0.00	7.63

			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	1084.576	-35.6#	173	0.00	8.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z10168.D 8260.M Wed Oct 10 09:22:49 2012

5.7.2
5

Continuing Calibration Summary

Job Number: F97561A **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101212\Z10277.D Vial: 1
Acq On : 12 Oct 2012 9:06 am Operator: KarenW
Sample : CC455-4 Inst : MSVOA15
Misc : MS22352,VZ460,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\8260.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Wed Oct 10 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	88	0.00	7.81
2		Dichlorodifluoromethane	0.527	0.558	-5.9	86	-0.01	2.62
3	P	Chloromethane	0.728	0.747	-2.6	85	-0.01	2.84
4	C	Vinyl Chloride	0.516	0.533	-3.3	84	-0.01	2.99
5		Bromomethane	0.265	0.280	-5.7	89	-0.01	3.43
6		Chloroethane	0.229	0.251	-9.6	92	-0.01	3.58
7		Trichlorofluoromethane	0.704	0.814	-15.6	96	-0.01	3.80
8		Ethyl Ether	0.418	0.430	-2.9	85	-0.02	4.11
9		1,2-Dichlorotrifluoroetha	0.579	0.640	-10.5	92	-0.01	4.35
10		Freon 113	0.482	0.539	-11.8	93	0.00	4.46
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	41.333	-3.3	93	-0.01	4.39
			AvgRF	CCRF	%Dev			
12		Acetone	0.121	0.127	-5.0	92	0.00	5.09
13		Iodomethane	0.829	0.864	-4.2	85	-0.01	4.59
14		Carbon Disulfide	1.428	1.523	-6.7	87	-0.01	4.47
15		Methyl acetate	0.345	0.346	-0.3	84	-0.01	5.21
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	40.823	-2.1	90	-0.01	5.06
17		Methyl Tert Butyl Ether	40.000	38.511	3.7	84	-0.01	5.35
18		trans-1,2-Dichloroethene	40.000	40.964	-2.4	90	0.00	5.25
			AvgRF	CCRF	%Dev			
19		Acrylonitrile	0.176	0.175	0.6	82	-0.01	5.97
20		Hexane	1.115	1.228	-10.1	89	-0.01	5.32
21		Di-isopropyl ether	1.832	1.956	-6.8	88	0.00	5.74
22		Vinyl acetate	0.959	1.054	-9.9	87	-0.01	6.15
23	P	1,1-Dichloroethane	0.849	0.914	-7.7	89	-0.01	5.93
			Amount	Calc.	%Drift			
24		ETBE	40.000	39.606	1.0	88	0.00	6.15
25		2-Butanone	200.000	191.731	4.1	84	-0.01	7.08
			AvgRF	CCRF	%Dev			
26		2,2-Dichloropropane	0.578	0.707	-22.3#	101	0.00	6.65
			Amount	Calc.	%Drift			
27		cis-1,2-Dichloroethene	40.000	38.953	2.6	86	0.00	6.52

Continuing Calibration Summary

Job Number: F97561A **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
28		Bromochloromethane	0.267	0.275	-3.0	84	-0.01	6.73
29		Tetrahydrofuran	0.140	0.123	12.1	78	0.00	6.96
30	C	Chloroform	0.837	0.923	-10.3	93	0.00	6.78
			Amount	Calc.	%Drift			
31	S	Dibromofluoromethane	50.000	52.380	-4.8	94	-0.01	6.97
32		1,1,1-Trichloroethane	40.000	44.330	-10.8	99	0.00	7.04
33		Cyclohexane	40.000	40.245	-0.6	90	0.00	6.77
34		Carbon Tetrachloride	40.000	44.943	-12.4	100	0.00	6.97
35		1,1-Dichloropropene	40.000	40.560	-1.4	90	-0.01	7.15
36	S	1,2-Dichloroethane-d4	50.000	52.823	-5.6	97	-0.01	7.53
37		TAME	40.000	37.703	5.7	83	0.00	7.48
38		Benzene	40.000	38.674	3.3	86	-0.01	7.41
			AvgRF	CCRF	%Dev			
39		1,2-Dichloroethane	0.709	0.786	-10.9	94	0.00	7.61
			Amount	Calc.	%Drift			
40		Trichloroethene	40.000	39.761	0.6	89	-0.01	7.99
41		Methylcyclohexane	40.000	39.950	0.1	89	0.00	8.00
			AvgRF	CCRF	%Dev			
42	C	1,2-Dichloropropane	0.472	0.472	0.0	82	-0.01	8.51
43		Dibromomethane	0.307	0.314	-2.3	86	0.00	8.42
			Amount	Calc.	%Drift			
44		Bromodichloromethane	40.000	40.733	-1.8	90	0.00	8.55
45		2-Chloroethyl vinyl ether	200.000	183.642	8.2	79	0.00	9.08
			AvgRF	CCRF	%Dev			
46		2-Nitropropane	0.108	0.117	-8.3	87	0.00	9.63
			Amount	Calc.	%Drift			
47		cis-1,3-Dichloropropene	40.000	39.108	2.2	86	0.00	9.17
			AvgRF	CCRF	%Dev			
48		4-Methyl-2-pentanone	0.464	0.480	-3.4	82	0.00	9.75
49	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	10.92
			Amount	Calc.	%Drift			
50	S	Toluene-d8	50.000	49.130	1.7	89	0.00	9.37
51	C	Toluene	40.000	38.058	4.9	87	0.00	9.42
			AvgRF	CCRF	%Dev			
52		trans-1,3-Dichloropropene	0.806	0.851	-5.6	88	0.00	9.81
53		1,1,2-Trichloroethane	0.435	0.414	4.8	83	0.00	9.97
			Amount	Calc.	%Drift			
54		Tetrachloroethene	40.000	38.944	2.6	90	0.00	9.82
55		2-hexanone	200.000	179.878	10.1	81	0.00	10.57
			AvgRF	CCRF	%Dev			
56		1,3-Dichloropropane	0.832	0.805	3.2	83	0.00	10.26
57		Dibromochloromethane	0.654	0.669	-2.3	87	0.00	10.17
58		1,2-Dibromoethane	0.522	0.511	2.1	83	0.00	10.44
			Amount	Calc.	%Drift			
59		1-Chlorohexane	40.000	38.104	4.7	88	0.00	10.87

Continuing Calibration Summary

Job Number: F97561A **Sample:** VZ460-CC455
Account: CSXT CSX Transportation **Lab FileID:** Z10277.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

60	P	Chlorobenzene	40.000	38.597	3.5	88	0.00	10.94
61	C	Ethylbenzene	40.000	39.873	0.3	91	0.00	10.94
			AvgRF	CCRF	%Dev			
62		1,1,1,2-Tetrachloroethane	0.613	0.657	-7.2	91	0.00	10.99
			Amount	Calc.	%Drift			
63		m,p-Xylene	80.000	80.098	-0.1	92	0.00	11.08
64		o-Xylene	40.000	39.283	1.8	90	0.00	11.52
65		Styrene	40.000	39.466	1.3	89	0.00	11.56
			AvgRF	CCRF	%Dev			
66	P	Bromoform	0.482	0.498	-3.3	87	0.00	11.63
67	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	13.28
			Amount	Calc.	%Drift			
68		Isopropylbenzene	40.000	37.505	6.2	91	0.00	11.82
69		Cyclohexanone	200.000	190.948	4.5	88	0.00	12.54
70	S	4-Bromofluorobenzene	50.000	49.271	1.5	93	0.00	12.13
			AvgRF	CCRF	%Dev			
71	P	1,1,2,2-Tetrachloroethane	1.239	1.110	10.4	84	0.00	12.30
			Amount	Calc.	%Drift			
72		trans-1,4-Dichloro-2-Bute	40.000	40.937	-2.3	97	0.00	12.48
			AvgRF	CCRF	%Dev			
73		n-Propylbenzene	4.840	5.133	-6.1	94	0.00	12.24
74		Bromobenzene	1.311	1.297	1.1	90	0.00	12.27
75		1,2,3-Trichloropropane	0.343	0.321	6.4	86	0.00	12.47
			Amount	Calc.	%Drift			
76		1,3,5-Trimethylbenzene	40.000	38.119	4.7	91	0.00	12.42
			AvgRF	CCRF	%Dev			
77		2-Chlorotoluene	3.412	3.640	-6.7	94	0.00	12.43
			Amount	Calc.	%Drift			
78		4-Chlorotoluene	40.000	39.244	1.9	95	0.00	12.60
79		tert-Butylbenzene	40.000	39.224	1.9	95	0.00	12.77
80		1,2,4-Trimethylbenzene	40.000	39.229	1.9	94	0.00	12.84
81		sec-Butylbenzene	40.000	38.619	3.5	93	0.00	12.95
82		4-Isopropyltoluene	40.000	38.830	2.9	94	0.00	13.08
83		1,3-Dichlorobenzene	40.000	38.841	2.9	94	0.00	13.22
84		1,4-Dichlorobenzene	40.000	38.478	3.8	93	0.00	13.30
			AvgRF	CCRF	%Dev			
85		Benzyl Chloride	0.468	0.500	-6.8	91	0.00	13.53
			Amount	Calc.	%Drift			
86		n-Butylbenzene	40.000	38.794	3.0	93	0.00	13.52
87		1,2-Dichlorobenzene	40.000	38.321	4.2	92	0.00	13.72
88		1,2-Dibromo-3-Chloropropa	40.000	32.625	18.4	80	0.00	14.46
89		1,2,4-Trichlorobenzene	40.000	33.237	16.9	81	0.00	15.05
90		Hexachlorobutadiene	40.000	36.664	8.3	89	0.00	15.00
91		Naphthalene	40.000	30.682	23.3#	74	0.00	15.34
92		1,2,3-Trichlorobenzene	40.000	30.212	24.5#	74	0.00	15.51

Continuing Calibration Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VZ460-CC455
Lab FileID: Z10277.D

			AvgRF	CCRF	%Dev			
93	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	81	0.00	5.32
94		Acrolein	3.031	3.221	-6.3	85	-0.01	4.77
95		Tert-Butyl Alcohol	1.958	2.029	-3.6	82	0.00	5.39
96		Tert amyl alcohol	1.490	1.448	2.8	74	0.00	7.63
			Amount	Calc.	%Drift			
97		1,4-Dioxane	800.000	932.715	-16.6	94	-0.01	8.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z10168.D 8260.M Sat Oct 13 09:54:13 2012

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43879-MB	U034155.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-4

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	43%	14-62%
4165-62-2	Phenol-d5	30%	10-40%
118-79-6	2,4,6-Tribromophenol	72%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	68%	40-106%
1718-51-0	Terphenyl-d14	89%	39-121%

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43879-MB	U034205.D	1	10/10/12	NAF	10/08/12	OP43879	SU1620

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-4

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	14-62%
4165-62-2	Phenol-d5	29%	10-40%
118-79-6	2,4,6-Tribromophenol	72%	33-118%
4165-60-0	Nitrobenzene-d5	69%	42-108%
321-60-8	2-Fluorobiphenyl	67%	40-106%
1718-51-0	Terphenyl-d14	86%	39-121%

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43879-MB	L059907.D	1	10/11/12	NAF	10/08/12	OP43879	SL3049

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-4

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	14-62%
4165-62-2	Phenol-d5	31%	10-40%
118-79-6	2,4,6-Tribromophenol	79%	33-118%
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	81%	39-121%

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MB	X025913.D	1	10/10/12	FS	10/09/12	OP43901	SX1251

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	14-62%
4165-62-2	Phenol-d5	37%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	92%	39-121%

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MB	T004529.D	1	10/11/12	FS	10/09/12	OP43901	ST230

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	48%	14-62%
4165-62-2	Phenol-d5	35%	10-40%
118-79-6	2,4,6-Tribromophenol	83%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	88%	39-121%

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43882-MB	W067894.D	1	10/09/12	MG	10/08/12	OP43882	SW3293

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-4

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	74% [a]	33-118%
4165-60-0	Nitrobenzene-d5	72% [a]	42-108%
321-60-8	2-Fluorobiphenyl	62% [a]	40-106%
1718-51-0	Terphenyl-d14	79% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W067991.D	1	10/12/12	MG	10/09/12	OP43902	SW3296

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	80% [a]	33-118%
4165-60-0	Nitrobenzene-d5	75% [a]	42-108%
321-60-8	2-Fluorobiphenyl	62% [a]	40-106%
1718-51-0	Terphenyl-d14	76% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W068009.D	1	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	76% [a]	33-118%
4165-60-0	Nitrobenzene-d5	71% [a]	42-108%
321-60-8	2-Fluorobiphenyl	59% [a]	40-106%
1718-51-0	Terphenyl-d14	76% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Method Blank Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MB	W068055.D	1	10/16/12	MG	10/09/12	OP43902	SW3299

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	75% [a]	33-118%
4165-60-0	Nitrobenzene-d5	71% [a]	42-108%
321-60-8	2-Fluorobiphenyl	59% [a]	40-106%
1718-51-0	Terphenyl-d14	72% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43879-BS	U034154.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
120-83-2	2,4-Dichlorophenol	50	36.2	72	53-108
105-67-9	2,4-Dimethylphenol	50	30.0	60	37-91
95-48-7	2-Methylphenol	50	29.6	59	35-91
	3&4-Methylphenol	100	54.7	55	32-85
108-95-2	Phenol	50	14.8	30	13-54
88-06-2	2,4,6-Trichlorophenol	50	38.7	77	58-107
85-68-7	Butyl benzyl phthalate	50	41.7	83	59-114
86-74-8	Carbazole	50	44.3	89	66-109
132-64-9	Dibenzofuran	50	40.5	81	61-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.4	83	59-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-62%
4165-62-2	Phenol-d5	25%	10-40%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	70%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-BS	X025912.D	1	10/10/12	FS	10/09/12	OP43901	SX1251

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
120-83-2	2,4-Dichlorophenol	50	41.0	82	53-108
105-67-9	2,4-Dimethylphenol	50	33.2	66	37-91
95-48-7	2-Methylphenol	50	33.3	67	35-91
	3&4-Methylphenol	100	61.0	61	32-85
108-95-2	Phenol	50	17.2	34	13-54
88-06-2	2,4,6-Trichlorophenol	50	41.6	83	58-107
85-68-7	Butyl benzyl phthalate	50	42.7	85	59-114
86-74-8	Carbazole	50	42.8	86	66-109
132-64-9	Dibenzofuran	50	42.2	84	61-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.5	85	59-116

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	14-62%
4165-62-2	Phenol-d5	33%	10-40%
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	78%	42-108%
321-60-8	2-Fluorobiphenyl	78%	40-106%
1718-51-0	Terphenyl-d14	86%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43882-BS	W067893.D	1	10/09/12	MG	10/08/12	OP43882	SW3293

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	13.7	69	57-118
83-32-9	Acenaphthene	10	7.2	72	56-99
208-96-8	Acenaphthylene	10	7.1	71	57-102
120-12-7	Anthracene	5	4.0	80	66-103
56-55-3	Benzo(a)anthracene	5	3.9	78	64-105
50-32-8	Benzo(a)pyrene	5	4.1	82	64-106
205-99-2	Benzo(b)fluoranthene	5	3.4	68	64-109
191-24-2	Benzo(g,h,i)perylene	5	4.1	82	46-104
207-08-9	Benzo(k)fluoranthene	5	3.8	76	64-106
218-01-9	Chrysene	5	3.9	78	64-104
53-70-3	Dibenzo(a,h)anthracene	5	4.0	80	43-105
206-44-0	Fluoranthene	10	8.2	82	64-105
86-73-7	Fluorene	10	7.5	75	58-101
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.0	80	49-104
91-57-6	2-Methylnaphthalene	10	6.6	66	52-101
91-20-3	Naphthalene	10	6.8	68	52-103
85-01-8	Phenanthrene	10	7.9	79	62-102
129-00-0	Pyrene	10	7.8	78	66-106

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	84%	33-118%
4165-60-0	Nitrobenzene-d5	73%	42-108%
321-60-8	2-Fluorobiphenyl	73%	40-106%
1718-51-0	Terphenyl-d14	82%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-BS	W067990.D	1	10/12/12	MG	10/09/12	OP43902	SW3296

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	11.9	60	57-118
83-32-9	Acenaphthene	10	7.9	79	56-99
208-96-8	Acenaphthylene	10	7.9	79	57-102
120-12-7	Anthracene	5	4.2	84	66-103
56-55-3	Benzo(a)anthracene	5	4.4	88	64-105
50-32-8	Benzo(a)pyrene	5	4.4	88	64-106
205-99-2	Benzo(b)fluoranthene	5	3.6	72	64-109
191-24-2	Benzo(g,h,i)perylene	5	4.4	88	46-104
207-08-9	Benzo(k)fluoranthene	5	4.2	84	64-106
218-01-9	Chrysene	5	4.3	86	64-104
53-70-3	Dibenzo(a,h)anthracene	5	4.4	88	43-105
206-44-0	Fluoranthene	10	8.9	89	64-105
86-73-7	Fluorene	10	8.4	84	58-101
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.4	88	49-104
91-57-6	2-Methylnaphthalene	10	7.3	73	52-101
91-20-3	Naphthalene	10	7.6	76	52-103
85-01-8	Phenanthrene	10	8.5	85	62-102
129-00-0	Pyrene	10	8.9	89	66-106

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	96%	33-118%
4165-60-0	Nitrobenzene-d5	82%	42-108%
321-60-8	2-Fluorobiphenyl	81%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-BS	W068008.D	1	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	12.1	61	57-118
83-32-9	Acenaphthene	10	7.5	75	56-99
208-96-8	Acenaphthylene	10	7.4	74	57-102
120-12-7	Anthracene	5	4.1	82	66-103
56-55-3	Benzo(a)anthracene	5	4.3	86	64-105
50-32-8	Benzo(a)pyrene	5	4.5	90	64-106
205-99-2	Benzo(b)fluoranthene	5	3.4	68	64-109
191-24-2	Benzo(g,h,i)perylene	5	4.3	86	46-104
207-08-9	Benzo(k)fluoranthene	5	4.2	84	64-106
218-01-9	Chrysene	5	4.2	84	64-104
53-70-3	Dibenzo(a,h)anthracene	5	4.2	84	43-105
206-44-0	Fluoranthene	10	8.6	86	64-105
86-73-7	Fluorene	10	7.9	79	58-101
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.3	86	49-104
91-57-6	2-Methylnaphthalene	10	7.2	72	52-101
91-20-3	Naphthalene	10	7.5	75	52-103
85-01-8	Phenanthrene	10	8.3	83	62-102
129-00-0	Pyrene	10	8.8	88	66-106

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	90%	33-118%
4165-60-0	Nitrobenzene-d5	81%	42-108%
321-60-8	2-Fluorobiphenyl	79%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43879-MS	U034162.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
OP43879-MSD	U034163.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619
F97712-2	U034161.D	1	10/09/12	NAF	10/08/12	OP43879	SU1619

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-4

CAS No.	Compound	F97712-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
120-83-2	2,4-Dichlorophenol	4.9	U	96.2	75.4	78	67.0	70	12	53-108/26
105-67-9	2,4-Dimethylphenol	4.9	U	96.2	66.0	69	59.2	62	11	37-91/28
95-48-7	2-Methylphenol	4.9	U	96.2	68.4	71	57.5	60	17	35-91/30
	3&4-Methylphenol	4.9	U	192	136	71	117	61	15	32-85/29
108-95-2	Phenol	4.9	U	96.2	48.8	51	39.0	41	22	13-54/34
88-06-2	2,4,6-Trichlorophenol	4.9	U	96.2	80.8	84	74.3	77	8	58-107/24
85-68-7	Butyl benzyl phthalate	4.9	U	96.2	86.4	90	78.8	82	9	59-114/20
86-74-8	Carbazole	4.9	U	96.2	92.6	96	85.2	89	8	66-109/20
132-64-9	Dibenzofuran	4.9	U	96.2	81.7	85	76.6	80	6	61-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	4.9	U	96.2	85.6	89	78.8	82	8	59-116/21

CAS No.	Surrogate Recoveries	MS	MSD	F97712-2	Limits
367-12-4	2-Fluorophenol	55%	44%	35%	14-62%
4165-62-2	Phenol-d5	46%* [a]	36%	24%	10-40%
118-79-6	2,4,6-Tribromophenol	88%	80%	78%	33-118%
4165-60-0	Nitrobenzene-d5	74%	62%	68%	42-108%
321-60-8	2-Fluorobiphenyl	76%	67%	68%	40-106%
1718-51-0	Terphenyl-d14	88%	81%	82%	39-121%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43901-MS2	T004531.D	4	10/11/12	FS	10/09/12	OP43901	ST230
OP43901-MSD2	T004532.D	4	10/11/12	FS	10/09/12	OP43901	ST230
F97561-2 [a]	T004530.D	4	10/11/12	FS	10/09/12	OP43901	ST230

The QC reported here applies to the following samples: **Method:** SW846 8270D

F97561-5, F97561-6, F97561-7

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
120-83-2	2,4-Dichlorophenol	4.7		96.2	100	99	90.4	89	10	53-108/26
105-67-9	2,4-Dimethylphenol	87.4		96.2	179	95*	167	83	7	37-91/28
95-48-7	2-Methylphenol	7.8		96.2	94.3	90	85.3	81	10	35-91/30
	3&4-Methylphenol	ND		192	171	89*	150	78	13	32-85/29
108-95-2	Phenol	ND		96.2	60.7	63*	50.4	52	19	13-54/34
88-06-2	2,4,6-Trichlorophenol	ND		96.2	91.1	95	84.2	88	8	58-107/24
85-68-7	Butyl benzyl phthalate	ND		96.2	97.5	101	87.3	91	11	59-114/20
86-74-8	Carbazole	72.2		96.2	182	114*	173	105	5	66-109/20
132-64-9	Dibenzofuran	47.5		96.2	147	103	137	93	7	61-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	95.6	99	84.1	87	13	59-116/21

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
367-12-4	2-Fluorophenol	71%* [b]	62%	37%	14-62%
4165-62-2	Phenol-d5	55%* [b]	46%* [b]	25%	10-40%
118-79-6	2,4,6-Tribromophenol	103%	91%	79%	33-118%
4165-60-0	Nitrobenzene-d5	90%	80%	71%	42-108%
321-60-8	2-Fluorobiphenyl	93%	80%	68%	40-106%
1718-51-0	Terphenyl-d14	99%	88%	74%	39-121%

(a) Dilution required due to high PAH levels.
(b) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43882-MS	W067901.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
OP43882-MSD	W067902.D	1	10/09/12	MG	10/08/12	OP43882	SW3293
F97553-6	W067895.D	1	10/09/12	MG	10/08/12	OP43882	SW3293

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-4

CAS No.	Compound	F97553-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND		38.5	32.8	85	31.4	82	4	57-118/26
83-32-9	Acenaphthene	ND		19.2	14.8	77	14.9	77	1	56-99/27
208-96-8	Acenaphthylene	ND		19.2	14.3	74	14.7	76	3	57-102/26
120-12-7	Anthracene	ND		9.62	8.5	88	8.3	86	2	66-103/22
56-55-3	Benzo(a)anthracene	ND		9.62	8.5	88	8.5	88	0	64-105/18
50-32-8	Benzo(a)pyrene	ND		9.62	9.0	94	8.9	93	1	64-106/21
205-99-2	Benzo(b)fluoranthene	ND		9.62	6.7	70	6.5	68	3	64-109/20
191-24-2	Benzo(g,h,i)perylene	ND		9.62	8.7	90	8.6	89	1	46-104/24
207-08-9	Benzo(k)fluoranthene	ND		9.62	8.5	88	8.3	86	2	64-106/22
218-01-9	Chrysene	ND		9.62	8.4	87	8.4	87	0	64-104/18
53-70-3	Dibenzo(a,h)anthracene	ND		9.62	8.8	92	8.7	90	1	43-105/26
206-44-0	Fluoranthene	ND		19.2	17.7	92	17.3	90	2	64-105/23
86-73-7	Fluorene	ND		19.2	15.5	81	15.5	81	0	58-101/23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9.62	8.9	93	8.5	88	5	49-104/26
91-57-6	2-Methylnaphthalene	ND		19.2	14.1	73	13.8	72	2	52-101/28
91-20-3	Naphthalene	ND		19.2	14.4	75	14.3	74	1	52-103/28
85-01-8	Phenanthrene	ND		19.2	16.7	87	16.4	85	2	62-102/24
129-00-0	Pyrene	ND		19.2	16.7	87	16.6	86	1	66-106/18

CAS No.	Surrogate Recoveries	MS	MSD	F97553-6	Limits
118-79-6	2,4,6-Tribromophenol	94%	92%	70% [a]	33-118%
4165-60-0	Nitrobenzene-d5	78%	77%	62% [a]	42-108%
321-60-8	2-Fluorobiphenyl	76%	75%	57% [a]	40-106%
1718-51-0	Terphenyl-d14	90%	88%	71% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP43902-MS2	W068015.D	100	10/15/12	MG	10/09/12	OP43902	SW3297
OP43902-MSD2	W068016.D	100	10/15/12	MG	10/09/12	OP43902	SW3297
F97561-2	W068010.D	100	10/15/12	MG	10/09/12	OP43902	SW3297

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

F97561-5, F97561-6, F97561-7

CAS No.	Compound	F97561-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND		38.5	ND	0*	ND	0*	nc	57-118/26
83-32-9	Acenaphthene	80.7		19.2	107	137* [a]	116	184* [a]	8	56-99/27
208-96-8	Acenaphthylene	ND		19.2	ND	0*	ND	0*	nc	57-102/26
120-12-7	Anthracene	ND		9.62	ND	0*	ND	0*	nc	66-103/22
56-55-3	Benzo(a)anthracene	ND		9.62	9.2	96	9.3	97	1	64-105/18
50-32-8	Benzo(a)pyrene	ND		9.62	ND	0*	ND	0*	nc	64-106/21
205-99-2	Benzo(b)fluoranthene	ND		9.62	ND	0*	ND	0*	nc	64-109/20
191-24-2	Benzo(g,h,i)perylene	ND		9.62	ND	0*	ND	0*	nc	46-104/24
207-08-9	Benzo(k)fluoranthene	ND		9.62	ND	0*	ND	0*	nc	64-106/22
218-01-9	Chrysene	ND		9.62	7.9	82	8.4	87	6	64-104/18
53-70-3	Dibenzo(a,h)anthracene	ND		9.62	ND	0*	ND	0*	nc	43-105/26
206-44-0	Fluoranthene	ND		19.2	ND	0*	ND	0*	nc	64-105/23
86-73-7	Fluorene	ND		19.2	ND	0*	ND	0*	nc	58-101/23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9.62	ND	0*	ND	0*	nc	49-104/26
91-57-6	2-Methylnaphthalene	132		19.2	161	151* [a]	181	255* [a]	12	52-101/28
91-20-3	Naphthalene	2210		19.2	2660	2340* [a]	2950	3848* [a]	10	52-103/28
85-01-8	Phenanthrene	36.7		19.2	55.1	96	61.9	131*	12	62-102/24
129-00-0	Pyrene	ND		19.2	ND	0*	ND	0*	nc	66-106/18

CAS No.	Surrogate Recoveries	MS	MSD	F97561-2	Limits
118-79-6	2,4,6-Tribromophenol	0%* [b]	0%* [b]	0%* [b]	33-118%
4165-60-0	Nitrobenzene-d5	0%* [b]	0%* [b]	0%* [b]	42-108%
321-60-8	2-Fluorobiphenyl	0%* [b]	0%* [b]	0%* [b]	40-106%
1718-51-0	Terphenyl-d14	0%* [b]	0%* [b]	0%* [b]	39-121%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to dilution.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3045-DFTPP
Lab File ID: L059826.D
Instrument ID: GCMSL
Injection Date: 10/09/12
Injection Time: 10:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	16877	35.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	19338	40.6		Pass
70	Less than 2.0% of mass 69	72	0.15	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	23876	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	47621	100.0		Pass
199	5.0 - 9.0% of mass 198	3275	6.88		Pass
275	10.0 - 30.0% of mass 198	11874	24.9		Pass
365	1.0 - 100.0% of mass 198	1068	2.24		Pass
441	Present, but less than mass 443	4778	10.0	(74.7) [b]	Pass
442	40.0 - 100.0% of mass 198	33801	71.0		Pass
443	17.0 - 23.0% of mass 442	6399	13.4	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3045-IC3045	L059827.D	10/09/12	11:07	00:16	Initial cal 5
SL3045-IC3045	L059828.D	10/09/12	11:37	00:46	Initial cal 10
SL3045-IC3045	L059829.D	10/09/12	12:06	01:15	Initial cal 25
SL3045-ICC3045	L059830.D	10/09/12	12:35	01:44	Initial cal 50
SL3045-IC3045	L059831.D	10/09/12	13:04	02:13	Initial cal 60
SL3045-IC3045	L059832.D	10/09/12	13:33	02:42	Initial cal 75
SL3045-IC3045	L059833.D	10/09/12	14:03	03:12	Initial cal 100
SL3045-ICV3045	L059834.D	10/09/12	14:32	03:41	Initial cal verification 50
SL3045-ICV3045	L059835.D	10/09/12	15:02	04:11	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3049-DFTPP
Lab File ID: L059892.D
Instrument ID: GCMSL
Injection Date: 10/11/12
Injection Time: 09:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	18369	33.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	21224	39.0		Pass
70	Less than 2.0% of mass 69	134	0.25	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	26677	49.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	54472	100.0		Pass
199	5.0 - 9.0% of mass 198	3856	7.08		Pass
275	10.0 - 30.0% of mass 198	13807	25.3		Pass
365	1.0 - 100.0% of mass 198	1388	2.55		Pass
441	Present, but less than mass 443	6266	11.5	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	42161	77.4		Pass
443	17.0 - 23.0% of mass 442	8331	15.3	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3049-CC3045	L059893.D	10/11/12	09:38	00:16	Continuing cal 50
OP43924-BS	L059894.D	10/11/12	10:06	00:44	Blank Spike
OP43924-MB	L059895.D	10/11/12	10:34	01:12	Method Blank
ZZZZZZ	L059896.D	10/11/12	11:03	01:41	(unrelated sample)
ZZZZZZ	L059897.D	10/11/12	11:32	02:10	(unrelated sample)
ZZZZZZ	L059898.D	10/11/12	12:00	02:38	(unrelated sample)
ZZZZZZ	L059899.D	10/11/12	12:29	03:07	(unrelated sample)
OP43906-MB	L059900.D	10/11/12	12:57	03:35	Method Blank
ZZZZZZ	L059901.D	10/11/12	13:26	04:04	(unrelated sample)
ZZZZZZ	L059902.D	10/11/12	13:55	04:33	(unrelated sample)
OP43856-MB	L059903.D	10/11/12	14:24	05:02	Method Blank
ZZZZZZ	L059904.D	10/11/12	14:53	05:31	(unrelated sample)
OP43868-MB	L059905.D	10/11/12	15:22	06:00	Method Blank
ZZZZZZ	L059906.D	10/11/12	15:50	06:28	(unrelated sample)
OP43879-MB	L059907.D	10/11/12	16:19	06:57	Method Blank
ZZZZZZ	L059908.D	10/11/12	16:47	07:25	(unrelated sample)
ZZZZZZ	L059909.D	10/11/12	17:16	07:54	(unrelated sample)
ZZZZZZ	L059910.D	10/11/12	17:44	08:22	(unrelated sample)
ZZZZZZ	L059911.D	10/11/12	18:13	08:51	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SL3049-DFTPP	**Injection Date:**	10/11/12
Lab File ID:	L059892.D	**Injection Time:**	09:22
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L059912.D	10/11/12	18:42	09:20	(unrelated sample)
ZZZZZZ	L059913.D	10/11/12	19:11	09:49	(unrelated sample)
F97708-5	L059914.D	10/11/12	19:39	10:17	(used for QC only; not part of job F97561A)
OP43924-MS	L059915.D	10/11/12	20:07	10:45	Matrix Spike
OP43924-MSD	L059916.D	10/11/12	20:36	11:14	Matrix Spike Duplicate
ZZZZZZ	L059917.D	10/11/12	21:04	11:42	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-DFTPP
Lab File ID: T004463.D
Instrument ID: GCMST
Injection Date: 10/09/12
Injection Time: 15:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	48218	34.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48730	34.6		Pass
70	Less than 2.0% of mass 69	312	0.22	(0.64) [a]	Pass
127	40.0 - 60.0% of mass 198	75186	53.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	140872	100.0		Pass
199	5.0 - 9.0% of mass 198	9265	6.58		Pass
275	10.0 - 30.0% of mass 198	33734	23.9		Pass
365	1.0 - 100.0% of mass 198	3699	2.63		Pass
441	Present, but less than mass 443	17549	12.5	(71.1) [b]	Pass
442	40.0 - 100.0% of mass 198	121296	86.1		Pass
443	17.0 - 23.0% of mass 442	24678	17.5	(20.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST227-IC227	T004464.D	10/09/12	16:15	00:16	Initial cal 5
ST227-IC227	T004465.D	10/09/12	16:44	00:45	Initial cal 10
ST227-IC227	T004466.D	10/09/12	17:12	01:13	Initial cal 25
ST227-IC227	T004467.D	10/09/12	17:40	01:41	Initial cal 50
ST227-IC227	T004468.D	10/09/12	18:08	02:09	Initial cal 60
ST227-ICC227	T004469.D	10/09/12	18:36	02:37	Initial cal 75
ST227-IC227	T004470.D	10/09/12	19:04	03:05	Initial cal 100
ST227-ICV227	T004471.D	10/09/12	19:32	03:33	Initial cal verification 50
ST227-ICV227	T004472.D	10/09/12	20:00	04:01	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST230-DFTPP
Lab File ID: T004527.D
Instrument ID: GCMST
Injection Date: 10/11/12
Injection Time: 11:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34136	34.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	34294	34.2		Pass
70	Less than 2.0% of mass 69	168	0.17	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	53056	52.9		Pass
197	Less than 1.0% of mass 198	240	0.24		Pass
198	Base peak, 100% relative abundance	100309	100.0		Pass
199	5.0 - 9.0% of mass 198	6928	6.91		Pass
275	10.0 - 30.0% of mass 198	25008	24.9		Pass
365	1.0 - 100.0% of mass 198	3021	3.01		Pass
441	Present, but less than mass 443	13846	13.8	(67.5) [b]	Pass
442	40.0 - 100.0% of mass 198	97216	96.9		Pass
443	17.0 - 23.0% of mass 442	20507	20.4	(21.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST230-CC227	T004528.D	10/11/12	11:27	00:16	Continuing cal 50
OP43901-MB	T004529.D	10/11/12	11:56	00:45	Method Blank
F97561-2	T004530.D	10/11/12	12:24	01:13	(used for QC only; not part of job F97561A)
OP43901-MS2	T004531.D	10/11/12	12:52	01:41	Matrix Spike
OP43901-MSD2	T004532.D	10/11/12	13:20	02:09	Matrix Spike Duplicate
F97561-7	T004533.D	10/11/12	13:47	02:36	MW-46A (100212)
ZZZZZZ	T004534.D	10/11/12	14:15	03:04	(unrelated sample)
ZZZZZZ	T004535.D	10/11/12	14:43	03:32	(unrelated sample)
ZZZZZZ	T004536.D	10/11/12	15:11	04:00	(unrelated sample)
OP43922-MB	T004537.D	10/11/12	15:39	04:28	Method Blank
OP43922-MS	T004539.D	10/11/12	16:36	05:25	Matrix Spike
OP43922-MSD	T004540.D	10/11/12	17:04	05:53	Matrix Spike Duplicate
ZZZZZZ	T004541.D	10/11/12	17:32	06:21	(unrelated sample)
ZZZZZZ	T004542.D	10/11/12	18:00	06:49	(unrelated sample)
ZZZZZZ	T004543.D	10/11/12	18:28	07:17	(unrelated sample)
OP43948-BS	T004544.D	10/11/12	18:56	07:45	Blank Spike
OP43948-MB	T004545.D	10/11/12	19:24	08:13	Method Blank
ZZZZZZ	T004546.D	10/11/12	19:51	08:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SU1599-DFTPP
Lab File ID: U033667.D
Instrument ID: GCMSU
Injection Date: 09/18/12
Injection Time: 14:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21940	34.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	30035	46.6		Pass
70	Less than 2.0% of mass 69	131	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	33700	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	64389	100.0		Pass
199	5.0 - 9.0% of mass 198	4236	6.58		Pass
275	10.0 - 30.0% of mass 198	15161	23.5		Pass
365	1.0 - 100.0% of mass 198	1530	2.38		Pass
441	Present, but less than mass 443	6417	9.97	(86.4) [b]	Pass
442	40.0 - 100.0% of mass 198	39093	60.7		Pass
443	17.0 - 23.0% of mass 442	7424	11.5	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU1599-IC1599	U033668.D	09/18/12	15:09	00:16	Initial cal 5
SU1599-IC1599	U033669.D	09/18/12	15:35	00:42	Initial cal 10
SU1599-IC1599	U033670.D	09/18/12	16:02	01:09	Initial cal 25
SU1599-ICC1599	U033671.D	09/18/12	16:29	01:36	Initial cal 50
SU1599-IC1599	U033672.D	09/18/12	16:56	02:03	Initial cal 60
SU1599-IC1599	U033673.D	09/18/12	17:22	02:29	Initial cal 75
SU1599-IC1599	U033674.D	09/18/12	17:49	02:56	Initial cal 100
SU1599-ICV1599	U033675.D	09/18/12	18:16	03:23	Initial cal verification 50
SU1599-ICV1599	U033676.D	09/18/12	18:42	03:49	Initial cal verification 50
ZZZZZZ	U033677.D	09/18/12	19:09	04:16	(unrelated sample)
ZZZZZZ	U033685.D	09/18/12	22:41	07:48	(unrelated sample)
ZZZZZZ	U033686.D	09/18/12	23:08	08:15	(unrelated sample)
ZZZZZZ	U033687.D	09/18/12	23:35	08:42	(unrelated sample)
OP43521-MB	U033689.D	09/19/12	00:28	09:35	Method Blank
ZZZZZZ	U033690.D	09/19/12	00:54	10:01	(unrelated sample)
ZZZZZZ	U033692.D	09/19/12	01:47	10:54	(unrelated sample)
ZZZZZZ	U033693.D	09/19/12	02:14	11:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SU1619-DFTPP
Lab File ID: U034152.D
Instrument ID: GCMSU
Injection Date: 10/09/12
Injection Time: 10:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27909	36.8		Pass
68	Less than 2.0% of mass 69	128	0.17	(0.33) [a]	Pass
69	Mass 69 relative abundance	38674	51.0		Pass
70	Less than 2.0% of mass 69	191	0.25	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	37711	49.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	75797	100.0		Pass
199	5.0 - 9.0% of mass 198	5374	7.09		Pass
275	10.0 - 30.0% of mass 198	18041	23.8		Pass
365	1.0 - 100.0% of mass 198	1697	2.24		Pass
441	Present, but less than mass 443	7165	9.45	(83.8) [b]	Pass
442	40.0 - 100.0% of mass 198	44008	58.1		Pass
443	17.0 - 23.0% of mass 442	8549	11.3	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU1619-CC1599	U034153.D	10/09/12	10:41	00:16	Continuing cal 75
OP43879-BS	U034154.D	10/09/12	11:12	00:47	Blank Spike
OP43879-MB	U034155.D	10/09/12	11:39	01:14	Method Blank
ZZZZZZ	U034156.D	10/09/12	12:06	01:41	(unrelated sample)
ZZZZZZ	U034157.D	10/09/12	12:33	02:08	(unrelated sample)
ZZZZZZ	U034158.D	10/09/12	13:00	02:35	(unrelated sample)
ZZZZZZ	U034159.D	10/09/12	13:26	03:01	(unrelated sample)
ZZZZZZ	U034160.D	10/09/12	13:53	03:28	(unrelated sample)
F97712-2	U034161.D	10/09/12	14:20	03:55	(used for QC only; not part of job F97561A)
OP43879-MS	U034162.D	10/09/12	14:47	04:22	Matrix Spike
OP43879-MSD	U034163.D	10/09/12	15:14	04:49	Matrix Spike Duplicate
ZZZZZZ	U034164.D	10/09/12	15:41	05:16	(unrelated sample)
ZZZZZZ	U034165.D	10/09/12	16:08	05:43	(unrelated sample)
ZZZZZZ	U034166.D	10/09/12	16:35	06:10	(unrelated sample)
OP43868-BS	U034167.D	10/09/12	17:02	06:37	Blank Spike
OP43868-MB	U034168.D	10/09/12	17:29	07:04	Method Blank
ZZZZZZ	U034169.D	10/09/12	17:55	07:30	(unrelated sample)
ZZZZZZ	U034170.D	10/09/12	18:22	07:57	(unrelated sample)
ZZZZZZ	U034171.D	10/09/12	18:49	08:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SU1619-DFTPP	**Injection Date:**	10/09/12
Lab File ID:	U034152.D	**Injection Time:**	10:25
Instrument ID:	GCMSU		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	U034172.D	10/09/12	19:16	08:51	(unrelated sample)
ZZZZZZ	U034173.D	10/09/12	19:43	09:18	(unrelated sample)
ZZZZZZ	U034174.D	10/09/12	20:09	09:44	(unrelated sample)
F97561-4	U034175.D	10/09/12	20:36	10:11	MW-47A (100212)
ZZZZZZ	U034176.D	10/09/12	21:02	10:37	(unrelated sample)
ZZZZZZ	U034178.D	10/09/12	21:56	11:31	(unrelated sample)
ZZZZZZ	U034180.D	10/09/12	22:49	12:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SU1620-DFTPP
Lab File ID: U034182.D
Instrument ID: GCMSU
Injection Date: 10/10/12
Injection Time: 11:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36534	38.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	47546	49.9		Pass
70	Less than 2.0% of mass 69	325	0.34	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	47747	50.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	95205	100.0		Pass
199	5.0 - 9.0% of mass 198	6575	6.91		Pass
275	10.0 - 30.0% of mass 198	22611	23.7		Pass
365	1.0 - 100.0% of mass 198	2098	2.20		Pass
441	Present, but less than mass 443	8824	9.27	(80.9) [b]	Pass
442	40.0 - 100.0% of mass 198	55426	58.2		Pass
443	17.0 - 23.0% of mass 442	10910	11.5	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU1620-CC1599	U034183.D	10/10/12	11:58	00:20	Continuing cal 50
OP43916-BS	U034184.D	10/10/12	12:32	00:54	Blank Spike
OP43916-MB	U034185.D	10/10/12	12:59	01:21	Method Blank
ZZZZZZ	U034186.D	10/10/12	13:26	01:48	(unrelated sample)
ZZZZZZ	U034187.D	10/10/12	13:53	02:15	(unrelated sample)
ZZZZZZ	U034188.D	10/10/12	14:19	02:41	(unrelated sample)
F97600-11	U034189.D	10/10/12	14:46	03:08	(used for QC only; not part of job F97561A)
OP43916-MS	U034190.D	10/10/12	15:13	03:35	Matrix Spike
OP43916-MSD	U034191.D	10/10/12	15:40	04:02	Matrix Spike Duplicate
ZZZZZZ	U034192.D	10/10/12	16:07	04:29	(unrelated sample)
ZZZZZZ	U034193.D	10/10/12	16:34	04:56	(unrelated sample)
ZZZZZZ	U034194.D	10/10/12	17:01	05:23	(unrelated sample)
ZZZZZZ	U034195.D	10/10/12	17:28	05:50	(unrelated sample)
ZZZZZZ	U034196.D	10/10/12	17:55	06:17	(unrelated sample)
ZZZZZZ	U034199.D	10/10/12	19:15	07:37	(unrelated sample)
ZZZZZZ	U034200.D	10/10/12	19:42	08:04	(unrelated sample)
ZZZZZZ	U034201.D	10/10/12	20:08	08:30	(unrelated sample)
ZZZZZZ	U034202.D	10/10/12	20:35	08:57	(unrelated sample)
ZZZZZZ	U034203.D	10/10/12	21:01	09:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SU1620-DFTPP	**Injection Date:**	10/10/12
Lab File ID:	U034182.D	**Injection Time:**	11:38
Instrument ID:	GCMSU		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	U034204.D	10/10/12	21:28	09:50	(unrelated sample)
OP43879-MB	U034205.D	10/10/12	21:54	10:16	Method Blank
ZZZZZZ	U034206.D	10/10/12	22:21	10:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3290-DFTPP
Lab File ID: W067837.D
Instrument ID: GCMSW
Injection Date: 10/05/12
Injection Time: 14:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	4873	48.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	3826	37.9		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	4671	46.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	10108	100.0		Pass
199	5.0 - 9.0% of mass 198	679	6.72		Pass
275	10.0 - 30.0% of mass 198	2080	20.6		Pass
365	1.0 - 100.0% of mass 198	177	1.75		Pass
441	Present, but less than mass 443	892	8.82	(84.0) [b]	Pass
442	40.0 - 100.0% of mass 198	5730	56.7		Pass
443	17.0 - 23.0% of mass 442	1062	10.5	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3290-IC3290	W067839.D	10/05/12	15:20	01:20	Initial cal 1
SW3290-IC3290	W067840.D	10/05/12	15:41	01:41	Initial cal 2
SW3290-IC3290	W067841.D	10/05/12	16:01	02:01	Initial cal 3
SW3290-ICC3290	W067842.D	10/05/12	16:22	02:22	Initial cal 4
SW3290-IC3290	W067843.D	10/05/12	16:43	02:43	Initial cal 5
SW3290-IC3290	W067844.D	10/05/12	17:04	03:04	Initial cal 6
SW3290-IC3290	W067845.D	10/05/12	17:24	03:24	Initial cal 7
SW3290-ICV3290	W067846.D	10/05/12	17:45	03:45	Initial cal verification 4
SW3290-ICV3290	W067847.D	10/05/12	18:06	04:06	Initial cal verification 4

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3293-DFTPP
Lab File ID: W067891.D
Instrument ID: GCMSW
Injection Date: 10/09/12
Injection Time: 11:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	3640	44.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	3015	36.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	3702	44.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	8270	100.0		Pass
199	5.0 - 9.0% of mass 198	593	7.17		Pass
275	10.0 - 30.0% of mass 198	1839	22.2		Pass
365	1.0 - 100.0% of mass 198	185	2.24		Pass
441	Present, but less than mass 443	797	9.64	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	5159	62.4		Pass
443	17.0 - 23.0% of mass 442	1044	12.6	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3293-CC3290	W067892.D	10/09/12	11:58	00:15	Continuing cal 4
OP43882-BS	W067893.D	10/09/12	13:06	01:23	Blank Spike
OP43882-MB	W067894.D	10/09/12	13:27	01:44	Method Blank
F97553-6	W067895.D	10/09/12	13:48	02:05	(used for QC only; not part of job F97561A)
ZZZZZZ	W067896.D	10/09/12	14:09	02:26	(unrelated sample)
ZZZZZZ	W067897.D	10/09/12	14:30	02:47	(unrelated sample)
ZZZZZZ	W067898.D	10/09/12	14:50	03:07	(unrelated sample)
ZZZZZZ	W067899.D	10/09/12	15:11	03:28	(unrelated sample)
F97561-4	W067900.D	10/09/12	15:32	03:49	MW-47A (100212)
OP43882-MS	W067901.D	10/09/12	15:53	04:10	Matrix Spike
OP43882-MSD	W067902.D	10/09/12	16:14	04:31	Matrix Spike Duplicate
OP43851-MS2	W067911.D	10/09/12	19:22	07:39	Matrix Spike
OP43851-MSD2	W067912.D	10/09/12	19:43	08:00	Matrix Spike Duplicate
ZZZZZZ	W067913.D	10/09/12	20:04	08:21	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3296-DFTPP
Lab File ID: W067987.D
Instrument ID: GCMSW
Injection Date: 10/12/12
Injection Time: 11:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	2509	50.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	1982	39.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	2412	48.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	5023	100.0		Pass
199	5.0 - 9.0% of mass 198	356	7.09		Pass
275	10.0 - 30.0% of mass 198	1064	21.2		Pass
365	1.0 - 100.0% of mass 198	62	1.23		Pass
441	Present, but less than mass 443	416	8.28	(78.9) [b]	Pass
442	40.0 - 100.0% of mass 198	2892	57.6		Pass
443	17.0 - 23.0% of mass 442	527	10.5	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3296-CC3290	W067988.D	10/12/12	11:21	00:15	Continuing cal 5
OP43902-BS	W067990.D	10/12/12	13:25	02:19	Blank Spike
OP43902-MB	W067991.D	10/12/12	13:57	02:51	Method Blank
F97553-5	W067992.D	10/12/12	14:18	03:12	(used for QC only; not part of job F97561A)
F97561-5	W067994.D	10/12/12	14:59	03:53	MW-56A (100212)
F97561-6	W067995.D	10/12/12	15:20	04:14	MW-56B (100212)
ZZZZZZ	W067998.D	10/12/12	16:23	05:17	(unrelated sample)
ZZZZZZ	W067999.D	10/12/12	16:43	05:37	(unrelated sample)
ZZZZZZ	W068000.D	10/12/12	17:04	05:58	(unrelated sample)
ZZZZZZ	W068001.D	10/12/12	17:25	06:19	(unrelated sample)
ZZZZZZ	W068002.D	10/12/12	17:46	06:40	(unrelated sample)
ZZZZZZ	W068003.D	10/12/12	18:07	07:01	(unrelated sample)
OP43902-MS1	W068005.D	10/12/12	18:48	07:42	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3297-DFTPP
Lab File ID: W068006.D
Instrument ID: GCMSW
Injection Date: 10/15/12
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	1972	47.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	1630	39.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	1959	47.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	4163	100.0		Pass
199	5.0 - 9.0% of mass 198	282	6.77		Pass
275	10.0 - 30.0% of mass 198	897	21.5		Pass
365	1.0 - 100.0% of mass 198	87	2.09		Pass
441	Present, but less than mass 443	360	8.65	(74.1) [b]	Pass
442	40.0 - 100.0% of mass 198	2352	56.5		Pass
443	17.0 - 23.0% of mass 442	486	11.7	(20.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3297-CC3290	W068007.D	10/15/12	10:07	00:15	Continuing cal 4
OP43902-BS	W068008.D	10/15/12	10:34	00:42	Blank Spike
OP43902-MB	W068009.D	10/15/12	10:55	01:03	Method Blank
F97561-2	W068010.D	10/15/12	11:16	01:24	(used for QC only; not part of job F97561A)
ZZZZZZ	W068013.D	10/15/12	12:18	02:26	(unrelated sample)
OP43902-MSD1	W068014.D	10/15/12	12:39	02:47	Matrix Spike Duplicate
OP43902-MS2	W068015.D	10/15/12	13:00	03:08	Matrix Spike
OP43902-MSD2	W068016.D	10/15/12	13:21	03:29	Matrix Spike Duplicate
OP43917-MB	W068017.D	10/15/12	13:41	03:49	Method Blank
ZZZZZZ	W068018.D	10/15/12	14:02	04:10	(unrelated sample)
OP43917-MS	W068019.D	10/15/12	14:23	04:31	Matrix Spike
ZZZZZZ	W068020.D	10/15/12	14:44	04:52	(unrelated sample)
ZZZZZZ	W068021.D	10/15/12	15:05	05:13	(unrelated sample)
ZZZZZZ	W068022.D	10/15/12	15:26	05:34	(unrelated sample)
ZZZZZZ	W068023.D	10/15/12	15:47	05:55	(unrelated sample)
ZZZZZZ	W068024.D	10/15/12	16:08	06:16	(unrelated sample)
OP43892-MB	W068025.D	10/15/12	16:29	06:37	Method Blank
ZZZZZZ	W068026.D	10/15/12	16:50	06:58	(unrelated sample)
OP43940-MB	W068027.D	10/15/12	17:11	07:19	Method Blank

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SW3297-DFTPP	**Injection Date:**	10/15/12
Lab File ID:	W068006.D	**Injection Time:**	09:52
Instrument ID:	GCMSW		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	W068028.D	10/15/12	17:32	07:40	(unrelated sample)
ZZZZZZ	W068029.D	10/15/12	17:53	08:01	(unrelated sample)
ZZZZZZ	W068030.D	10/15/12	18:14	08:22	(unrelated sample)
ZZZZZZ	W068031.D	10/15/12	18:35	08:43	(unrelated sample)
ZZZZZZ	W068032.D	10/15/12	18:55	09:03	(unrelated sample)
ZZZZZZ	W068033.D	10/15/12	19:16	09:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3299-DFTPP
Lab File ID: W068052.D
Instrument ID: GCMSW
Injection Date: 10/16/12
Injection Time: 10:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	2710	46.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	2234	38.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	2699	46.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	5844	100.0		Pass
199	5.0 - 9.0% of mass 198	425	7.27		Pass
275	10.0 - 30.0% of mass 198	1269	21.7		Pass
365	1.0 - 100.0% of mass 198	110	1.88		Pass
441	Present, but less than mass 443	473	8.09	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	3432	58.7		Pass
443	17.0 - 23.0% of mass 442	639	10.9	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SW3299-CC3290	W068053.D	10/16/12	10:59	00:16	Continuing cal 4
OP43902-MB	W068055.D	10/16/12	11:40	00:57	Method Blank
F97561-7	W068056.D	10/16/12	12:01	01:18	MW-46A (100212)
ZZZZZZ	W068057.D	10/16/12	12:21	01:38	(unrelated sample)
OP43946-BS	W068058.D	10/16/12	12:42	01:59	Blank Spike
OP43946-MB	W068059.D	10/16/12	13:03	02:20	Method Blank
OP43946-BS	W068060.D	10/16/12	13:23	02:40	Blank Spike
ZZZZZZ	W068061.D	10/16/12	13:59	03:16	(unrelated sample)
ZZZZZZ	W068062.D	10/16/12	14:20	03:37	(unrelated sample)
ZZZZZZ	W068063.D	10/16/12	14:49	04:06	(unrelated sample)
ZZZZZZ	W068064.D	10/16/12	15:10	04:27	(unrelated sample)
ZZZZZZ	W068065.D	10/16/12	15:31	04:48	(unrelated sample)
ZZZZZZ	W068066.D	10/16/12	15:52	05:09	(unrelated sample)
ZZZZZZ	W068067.D	10/16/12	16:12	05:29	(unrelated sample)
F97654-2	W068068.D	10/16/12	16:33	05:50	(used for QC only; not part of job F97561A)
OP43946-MS	W068069.D	10/16/12	16:54	06:11	Matrix Spike
OP43946-MSD	W068070.D	10/16/12	17:15	06:32	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-DFTPP
Lab File ID: X025734.D
Instrument ID: GCMSX
Injection Date: 10/01/12
Injection Time: 11:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36737	46.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	31993	40.6		Pass
70	Less than 2.0% of mass 69	174	0.22	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	38088	48.4		Pass
197	Less than 1.0% of mass 198	768	0.98		Pass
198	Base peak, 100% relative abundance	78733	100.0		Pass
199	5.0 - 9.0% of mass 198	5290	6.72		Pass
275	10.0 - 30.0% of mass 198	16553	21.0		Pass
365	1.0 - 100.0% of mass 198	2026	2.57		Pass
441	Present, but less than mass 443	9468	12.0	(77.0) [b]	Pass
442	40.0 - 100.0% of mass 198	61584	78.2		Pass
443	17.0 - 23.0% of mass 442	12302	15.6	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1244-IC1244	X025736.D	10/01/12	11:48	00:44	Initial cal 5
SX1244-IC1244	X025737.D	10/01/12	12:16	01:12	Initial cal 10
SX1244-IC1244	X025738.D	10/01/12	12:43	01:39	Initial cal 25
SX1244-IC1244	X025739.D	10/01/12	13:10	02:06	Initial cal 50
SX1244-IC1244	X025740.D	10/01/12	13:38	02:34	Initial cal 60
SX1244-ICC1244	X025741.D	10/01/12	14:05	03:01	Initial cal 75
SX1244-IC1244	X025742.D	10/01/12	14:33	03:29	Initial cal 100
SX1244-ICV1244	X025743.D	10/01/12	15:01	03:57	Initial cal verification 50
SX1244-ICV1244	X025744.D	10/01/12	15:29	04:25	Initial cal verification 50
OP43777-BS	X025745.D	10/01/12	15:59	04:55	Blank Spike
OP43777-MB	X025746.D	10/01/12	16:27	05:23	Method Blank
ZZZZZZ	X025747.D	10/01/12	16:55	05:51	(unrelated sample)
ZZZZZZ	X025748.D	10/01/12	17:22	06:18	(unrelated sample)
ZZZZZZ	X025749.D	10/01/12	17:50	06:46	(unrelated sample)
ZZZZZZ	X025750.D	10/01/12	18:18	07:14	(unrelated sample)
ZZZZZZ	X025751.D	10/01/12	18:45	07:41	(unrelated sample)
ZZZZZZ	X025752.D	10/01/12	19:13	08:09	(unrelated sample)
ZZZZZZ	X025753.D	10/01/12	19:41	08:37	(unrelated sample)
ZZZZZZ	X025754.D	10/01/12	20:08	09:04	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SX1244-DFTPP	**Injection Date:**	10/01/12
Lab File ID:	X025734.D	**Injection Time:**	11:04
Instrument ID:	GCMSX		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP43759-MB	X025755.D	10/01/12	20:35	09:31	Method Blank
ZZZZZZ	X025756.D	10/01/12	21:03	09:59	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1251-DFTPP
Lab File ID: X025910.D
Instrument ID: GCMSX
Injection Date: 10/10/12
Injection Time: 11:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50952	56.7		Pass
68	Less than 2.0% of mass 69	258	0.29	(0.61) [a]	Pass
69	Mass 69 relative abundance	42602	47.4		Pass
70	Less than 2.0% of mass 69	246	0.27	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	47005	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	89933	100.0		Pass
199	5.0 - 9.0% of mass 198	6192	6.89		Pass
275	10.0 - 30.0% of mass 198	18850	21.0		Pass
365	1.0 - 100.0% of mass 198	2047	2.28		Pass
441	Present, but less than mass 443	9714	10.8	(77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	63639	70.8		Pass
443	17.0 - 23.0% of mass 442	12590	14.0	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1251-CC1244	X025911.D	10/10/12	11:36	00:17	Continuing cal 50
OP43901-BS	X025912.D	10/10/12	12:06	00:47	Blank Spike
OP43901-MB	X025913.D	10/10/12	12:33	01:14	Method Blank
F97553-5	X025914.D	10/10/12	13:01	01:42	(used for QC only; not part of job F97561A)
OP43901-MS1	X025915.D	10/10/12	13:28	02:09	Matrix Spike
OP43901-MSD1	X025916.D	10/10/12	13:56	02:37	Matrix Spike Duplicate
F97561-5	X025920.D	10/10/12	15:46	04:27	MW-56A (100212)
F97561-6	X025921.D	10/10/12	16:14	04:55	MW-56B (100212)
ZZZZZZ	X025924.D	10/10/12	17:37	06:18	(unrelated sample)
ZZZZZZ	X025925.D	10/10/12	18:05	06:46	(unrelated sample)
ZZZZZZ	X025927.D	10/10/12	19:00	07:41	(unrelated sample)
ZZZZZZ	X025928.D	10/10/12	19:27	08:08	(unrelated sample)
ZZZZZZ	X025929.D	10/10/12	19:54	08:35	(unrelated sample)
OP43884-MB	X025931.D	10/10/12	20:49	09:30	Method Blank
ZZZZZZ	X025932.D	10/10/12	21:16	09:57	(unrelated sample)
ZZZZZZ	X025933.D	10/10/12	21:43	10:24	(unrelated sample)
ZZZZZZ	X025934.D	10/10/12	22:10	10:51	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SL3049-CC3045	**Injection Date:**	10/11/12
Lab File ID:	L059893.D	**Injection Time:**	09:38
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	78693	5.00	279077	6.14	153655	8.41	243983	10.90	212898	15.81	186653	18.30
Check Std [b]	112738	4.95	384467	6.08	210308	8.34	316980	10.83	262801	15.73	228304	18.22
Upper Limit [c]	225476	5.45	768934	6.58	420616	8.84	633960	11.33	525602	16.23	456608	18.72
Lower Limit [d]	56369	4.45	192234	5.58	105154	7.84	158490	10.33	131401	15.23	114152	17.72
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP43924-BS	83493	4.94	293589	6.08	154392	8.34	228551	10.82	194565	15.72	172768	18.21
OP43924-MB	100129	4.94	337273	6.07	180873	8.33	271162	10.81	242605	15.71	231282	18.21
ZZZZZZ	99486	4.94	325440	6.07	178319	8.33	259600	10.82	226632	15.71	197280	18.21
ZZZZZZ	92414	4.94	316328	6.08	172612	8.33	255992	10.82	220328	15.72	192715	18.21
ZZZZZZ	85679	4.94	296039	6.07	164255	8.33	242346	10.82	203206	15.72	177710	18.22
ZZZZZZ	88968	4.95	303935	6.08	167077	8.34	257549	10.82	213609	15.72	187619	18.22
OP43906-MB	91360	4.95	310157	6.08	167331	8.34	244984	10.82	218443	15.72	188361	18.22
ZZZZZZ	87957	4.95	299339	6.08	163697	8.34	253266	10.83	202039	15.74	185993	18.23
ZZZZZZ	97296	4.95	329109	6.08	181464	8.34	267696	10.83	218679	15.75	204164	18.24
OP43856-MB	93156	4.94	318907	6.08	179063	8.34	265314	10.83	225446	15.73	195239	18.23
ZZZZZZ	93900	4.95	315275	6.08	163062	8.34	237516	10.83	215717	15.73	190993	18.23
OP43868-MB	111056	4.94	377071	6.08	211472	8.34	317011	10.83	272078	15.73	234188	18.23
ZZZZZZ	84586	4.95	293983	6.08	158314	8.34	230288	10.83	194002	15.73	173588	18.23
OP43879-MB	134872	4.95	448322	6.08	242909	8.34	362293	10.83	333613	15.73	288030	18.23
ZZZZZZ	95347	4.94	311580	6.08	171750	8.34	250714	10.82	223045	15.73	195923	18.23
ZZZZZZ	91865	4.94	298669	6.08	140705	8.34	207229	10.84	209435	15.73	187552	18.23
ZZZZZZ	80168	4.94	282984	6.08	153717	8.34	236237	10.82	217893	15.73	185665	18.23
ZZZZZZ	82630	4.94	291455	6.08	161630	8.34	242440	10.83	216153	15.73	187341	18.22
ZZZZZZ	85559	4.94	298072	6.08	168515	8.34	250218	10.82	218949	15.73	191618	18.22
ZZZZZZ	85456	4.95	302386	6.08	167868	8.34	253167	10.83	226371	15.73	194683	18.22
F97708-5	100642	4.94	345461	6.08	158801	8.34	240332	10.83	217467	15.73	188379	18.22
OP43924-MS	106431	4.94	362624	6.08	197034	8.34	293370	10.83	247926	15.73	223923	18.23
OP43924-MSD	95047	4.95	329862	6.08	178651	8.34	273132	10.83	228551	15.73	206337	18.22
ZZZZZZ	100894	4.94	343285	6.08	189474	8.34	281184	10.82	245515	15.72	209314	18.22

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL3045-ICC3045 L059830.D 10/09/12 12:35

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SL3049-CC3045	**Injection Date:**	10/11/12
Lab File ID:	L059893.D	**Injection Time:**	09:38
Instrument ID:	GCMSL	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	ST230-CC227	**Injection Date:**	10/11/12
Lab File ID:	T004528.D	**Injection Time:**	11:27
Instrument ID:	GCMST	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	117721	4.15	488349	5.12	235276	7.09	394660	9.37	302296	14.18	270792	16.63
Check Std [b]	167644	4.10	699855	5.06	341523	7.01	551024	9.28	429688	14.08	388592	16.53
Upper Limit [c]	335288	4.60	1399710	5.56	683046	7.51	1102048	9.78	859376	14.58	777184	17.03
Lower Limit [d]	83822	3.60	349928	4.56	170762	6.51	275512	8.78	214844	13.58	194296	16.03
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP43901-MB	144289	4.10	599812	5.06	297201	7.00	471870	9.28	384896	14.07	340994	16.52
F97561-2	126230	4.10	474584	5.06	251222	7.00	395521	9.28	317775	14.06	281623	16.52
OP43901-MS2	121974	4.10	484155	5.06	237603	7.00	376880	9.28	302220	14.07	269544	16.52
OP43901-MSD2	132675	4.10	534817	5.06	268544	7.00	427848	9.28	343473	14.07	305498	16.52
F97561-7 [e]	118686	4.10	461585	5.06	246849	7.00	389643	9.28	313455	14.06	276892	16.52
ZZZZZZ	120928	4.10	472008	5.06	242896	7.00	391119	9.28	305672	14.06	274090	16.52
ZZZZZZ	119041	4.10	419677	5.06	239282	7.00	380697	9.28	355624	14.07	275023	16.52
ZZZZZZ	122877	4.10	456878	5.06	246857	7.00	383640	9.28	311832	14.06	278629	16.52
OP43922-MB	126963	4.09	518184	5.06	257607	7.00	406598	9.28	318286	14.06	286849	16.52
OP43922-MS	121852	4.09	451986	5.06	242578	7.00	386494	9.28	311805	14.07	282506	16.52
OP43922-MSD	122954	4.09	422001	5.07	242465	7.01	382577	9.28	309400	14.07	279534	16.52
ZZZZZZ	145402	4.09	600916	5.06	293603	7.00	458543	9.28	365206	14.06	326034	16.52
ZZZZZZ	112740	4.09	417875	5.06	227691	7.00	358296	9.28	286293	14.06	251308	16.52
ZZZZZZ	122390	4.09	507212	5.05	248572	7.00	392518	9.28	306310	14.07	277882	16.52
OP43948-BS [f]	110089	4.09	458809	5.05	223931	7.00	354789	9.27	283972	14.06	252335	16.52
OP43948-MB	116401	4.09	473517	5.05	236413	7.00	371890	9.27	293357	14.06	259366	16.52
ZZZZZZ	119725	4.09	449374	5.06	244301	7.00	378371	9.29	305184	14.07	277697	16.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ST227-ICC227 T004469.D 10/09/12 18:36
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Dilution required due to high PAH levels.
(f) Outside control limits due to dilution.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SU1619-CC1599	**Injection Date:**	10/09/12
Lab File ID:	U034153.D	**Injection Time:**	10:41
Instrument ID:	GCMSU	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	155478	3.91	647411	4.85	344135	6.70	568882	9.00	529615	13.80	416313	16.26
Check Std [b]	216994	3.78	842982	4.71	461415	6.48	755534	8.72	727570	13.50	574904	15.94
Upper Limit [c]	433988	4.28	1685964	5.21	922830	6.98	1511068	9.22	1455140	14.00	1149808	16.44
Lower Limit [d]	108497	3.28	421491	4.21	230708	5.98	377767	8.22	363785	13.00	287452	15.44

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP43879-BS	162144	3.78	656260	4.71	356756	6.47	595457	8.71	569823	13.48	436849	15.92
OP43879-MB	164703	3.77	670016	4.70	381345	6.47	630745	8.70	599018	13.46	466156	15.91
ZZZZZZ	198431	3.78	781409	4.70	444579	6.47	733573	8.70	701228	13.47	544810	15.92
ZZZZZZ	170085	3.77	681287	4.70	393292	6.47	652961	8.70	622587	13.46	480016	15.91
ZZZZZZ	176419	3.77	705531	4.70	396558	6.47	652377	8.70	637396	13.46	488115	15.91
ZZZZZZ	167985	3.77	678793	4.70	388277	6.47	656666	8.70	626643	13.46	489000	15.91
ZZZZZZ	172613	3.77	692706	4.70	394979	6.47	655418	8.70	629877	13.46	486325	15.91
F97712-2	175570	3.77	683509	4.70	389141	6.47	662079	8.71	642120	13.47	507935	15.92
OP43879-MS	177844	3.78	705346	4.70	385134	6.47	616804	8.71	603513	13.48	477445	15.92
OP43879-MSD	195703	3.78	785380	4.70	429804	6.47	704007	8.71	689667	13.48	537769	15.92
ZZZZZZ	191049	3.77	782819	4.70	443447	6.47	737648	8.70	698963	13.46	542629	15.91
ZZZZZZ	178114	3.77	717661	4.70	398369	6.47	664219	8.70	645152	13.46	497793	15.91
ZZZZZZ	174937	3.77	711061	4.70	403966	6.46	663828	8.70	646612	13.46	491214	15.91
OP43868-BS	180297	3.77	714164	4.70	388409	6.47	633749	8.71	618423	13.47	478401	15.91
OP43868-MB	210158	3.77	864558	4.70	489923	6.47	810910	8.70	769430	13.46	595058	15.91
ZZZZZZ	198382	3.77	791575	4.70	448630	6.47	732080	8.70	705696	13.46	545125	15.91
ZZZZZZ	202662	3.77	832181	4.70	470499	6.46	769083	8.70	746896	13.46	581619	15.91
ZZZZZZ	207823	3.77	845545	4.70	474315	6.46	774048	8.70	752334	13.46	582679	15.91
ZZZZZZ	188691	3.77	760486	4.70	434030	6.46	721903	8.70	702247	13.45	535742	15.90
ZZZZZZ	209897	3.77	843181	4.70	470659	6.46	771050	8.70	739821	13.46	576850	15.91
ZZZZZZ	179236	3.77	726340	4.70	412998	6.46	674317	8.70	655159	13.45	509550	15.90
F97561-4	175365	3.77	718796	4.70	415050	6.46	669049	8.69	670158	13.45	512152	15.90
ZZZZZZ	174234	3.77	693220	4.70	403008	6.46	664207	8.69	645496	13.45	502581	15.90
ZZZZZZ	185140	3.77	754592	4.70	422983	6.46	685051	8.69	651305	13.45	498582	15.90
ZZZZZZ	198719	3.77	835978	4.70	461969	6.47	735463	8.70	725703	13.48	549985	15.92

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SU1619-CC1599	**Injection Date:**	10/09/12
Lab File ID:	U034153.D	**Injection Time:**	10:41
Instrument ID:	GCMSU	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(a) Initial Cal is: SU1599-ICC1599 U033671.D 09/18/12 16:29
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SU1620-CC1599	**Injection Date:**	10/10/12
Lab File ID:	U034183.D	**Injection Time:**	11:58
Instrument ID:	GCMSU	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	155478	3.91	647411	4.85	344135	6.70	568882	9.00	529615	13.80	416313	16.26
Check Std [b]	204713	3.76	816378	4.69	448397	6.45	730836	8.69	718783	13.45	562547	15.89
Upper Limit [c]	409426	4.26	1632756	5.19	896794	6.95	1461672	9.19	1437566	13.95	1125094	16.39
Lower Limit [d]	102357	3.26	408189	4.19	224199	5.95	365418	8.19	359392	12.95	281274	15.39

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP43916-BS	158242	3.76	642051	4.69	359155	6.45	597782	8.68	605214	13.44	477131	15.89
OP43916-MB	147909	3.76	598708	4.68	343171	6.44	575949	8.67	581377	13.43	465339	15.87
ZZZZZZ	151312	3.76	621030	4.68	348947	6.44	575438	8.67	582382	13.43	472772	15.88
ZZZZZZ	162015	3.76	659597	4.68	375328	6.44	624806	8.67	634748	13.42	505874	15.87
ZZZZZZ	187091	3.76	809324	4.73	421530	6.45	720339	8.68	697298	13.44	555180	15.88
F97600-11	182319	3.76	733701	4.68	423167	6.44	701250	8.67	702468	13.42	560711	15.88
OP43916-MS	188581	3.76	773113	4.69	420272	6.45	698327	8.68	709873	13.44	553470	15.88
OP43916-MSD	168762	3.76	706807	4.69	386649	6.45	627568	8.68	642889	13.44	495924	15.88
ZZZZZZ	171768	3.76	681537	4.68	386462	6.44	635181	8.67	627547	13.42	496449	15.87
ZZZZZZ	172529	3.76	679883	4.68	393376	6.44	658960	8.67	650026	13.42	519220	15.87
ZZZZZZ	163722	3.75	657487	4.68	378820	6.44	625514	8.67	633972	13.42	500315	15.87
ZZZZZZ	168758	3.75	683446	4.68	386142	6.44	636495	8.66	638788	13.42	509105	15.87
ZZZZZZ	174470	3.75	759620	4.70	391269	6.44	649909	8.67	638806	13.42	501808	15.87
ZZZZZZ	202837	3.75	810239	4.68	456006	6.44	753590	8.67	710709	13.42	547979	15.87
ZZZZZZ	200827	3.75	827559	4.68	466810	6.44	769484	8.66	778586	13.42	614073	15.87
ZZZZZZ	174005	3.75	684831	4.68	389579	6.44	650112	8.66	634435	13.41	494796	15.86
ZZZZZZ	182712	3.75	734506	4.68	422986	6.44	709069	8.66	701584	13.41	554601	15.86
ZZZZZZ	136573	3.75	534272	4.68	305535	6.43	509216	8.66	505022	13.41	391977	15.86
ZZZZZZ	199717	3.75	816574	4.68	460641	6.43	764885	8.66	765960	13.41	609311	15.86
OP43879-MB	221146	3.75	897592	4.68	520198	6.43	855583	8.66	851506	13.41	657966	15.86
ZZZZZZ	196949	3.75	794973	4.68	455804	6.43	749146	8.66	730892	13.41	568921	15.86

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SU1599-ICC1599 U033671.D 09/18/12 16:29
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3293-CC3290	**Injection Date:**	10/09/12
Lab File ID:	W067892.D	**Injection Time:**	11:58
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	288874	4.57	162016	6.10	260236	7.38	221158	9.93	148113	12.08
Upper Limit [c]	577748	5.07	324032	6.60	520472	7.88	442316	10.43	296226	12.58
Lower Limit [d]	144437	4.07	81008	5.60	130118	6.88	110579	9.43	74057	11.58

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43882-BS	331991	4.57	183534	6.11	288499	7.38	244224	9.94	160886	12.10
OP43882-MB	280454	4.56	155634	6.10	256048	7.38	198378	9.93	128493	12.09
F97553-6	284017	4.56	155868	6.10	247759	7.38	198103	9.93	128130	12.08
ZZZZZZ	343508	4.57	194282	6.10	299441	7.38	243790	9.93	156255	12.08
ZZZZZZ	342461	4.57	189958	6.10	294029	7.38	240674	9.93	157076	12.09
ZZZZZZ	330232	4.56	185511	6.10	283244	7.38	232532	9.93	155280	12.08
ZZZZZZ	330267	4.57	183644	6.10	291714	7.38	246423	9.93	165878	12.09
F97561-4	271640	4.57	154092	6.10	231901	7.38	194419	9.93	128982	12.08
OP43882-MS	321122	4.57	181602	6.10	282107	7.38	237376	9.93	160955	12.08
OP43882-MSD	326772	4.57	182271	6.10	283558	7.39	235162	9.93	162417	12.09
OP43851-MS2	336353	4.57	191300	6.10	295004	7.38	241842	9.93	162380	12.08
OP43851-MSD2	291213	4.57	166970	6.10	254964	7.38	203043	9.93	134842	12.09
ZZZZZZ	356683	4.57	197982	6.10	313001	7.38	242883	9.93	117295	12.09

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3296-CC3290	**Injection Date:**	10/12/12
Lab File ID:	W067988.D	**Injection Time:**	11:21
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	485013	4.51	268551	6.04	424916	7.32	340310	9.84	224730	11.96
Upper Limit [c]	970026	5.01	537102	6.54	849832	7.82	680620	10.34	449460	12.46
Lower Limit [d]	242507	4.01	134276	5.54	212458	6.82	170155	9.34	112365	11.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-BS	454595	4.51	252633	6.04	397339	7.32	318538	9.85	208348	11.97
OP43902-MB	517593	4.51	285513	6.05	447376	7.32	342757	9.85	218283	11.96
F97553-5	557251	4.51	309954	6.04	482792	7.31	375546	9.84	243568	11.95
F97561-5	577612	4.51	300146	6.03	460213	7.31	371425	9.84	244771	11.95
F97561-6	582941	4.51	311072	6.03	491946	7.32	395199	9.84	265143	11.95
ZZZZZZ	629530	4.51	306118	6.04	496607	7.32	407199	9.84	272919	11.96
ZZZZZZ	552123	4.51	304128	6.04	464837	7.31	370655	9.84	244721	11.95
ZZZZZZ	510264	4.50	282546	6.04	447028	7.31	348885	9.84	230946	11.95
ZZZZZZ	466869	4.51	253747	6.03	400858	7.31	331151	9.84	224492	11.96
ZZZZZZ	440132	4.51	253672	6.04	385295	7.31	309569	9.84	205890	11.95
ZZZZZZ	526869	4.51	294036	6.04	466020	7.31	375579	9.84	251525	11.95
OP43902-MS1	428624	4.51	237376	6.03	371577	7.31	302416	9.84	204373	11.95

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3297-CC3290	**Injection Date:**	10/15/12
Lab File ID:	W068007.D	**Injection Time:**	10:07
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	477836	4.51	276319	6.04	426812	7.31	346832	9.84	226565	11.95
Upper Limit [c]	955672	5.01	552638	6.54	853624	7.81	693664	10.34	453130	12.45
Lower Limit [d]	238918	4.01	138160	5.54	213406	6.81	173416	9.34	113283	11.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-BS	433724	4.51	246064	6.04	374833	7.32	296203	9.84	196860	11.96
OP43902-MB	455971	4.51	252322	6.04	399658	7.31	305134	9.84	194042	11.95
F97561-2	422286	4.51	242035	6.04	374473	7.31	282415	9.84	177847	11.95
ZZZZZZ	433915	4.50	245178	6.03	376838	7.31	287382	9.84	181136	11.95
OP43902-MSD1	451040	4.51	254401	6.04	397645	7.31	317130	9.84	215182	11.95
OP43902-MS2	433609	4.50	246195	6.03	377827	7.31	286446	9.84	179322	11.95
OP43902-MSD2	431417	4.51	246828	6.04	372118	7.31	286879	9.84	178867	11.95
OP43917-MB	605677	4.51	336310	6.04	514853	7.31	401858	9.84	249471	11.95
ZZZZZZ	578911	4.51	326324	6.04	490055	7.31	386999	9.84	251944	11.95
OP43917-MS	532294	4.51	302389	6.04	472081	7.32	383590	9.84	252750	11.95
ZZZZZZ	461117	4.51	255072	6.03	393013	7.31	300919	9.84	187951	11.95
ZZZZZZ	475534	4.51	264086	6.03	408385	7.31	308065	9.84	196003	11.95
ZZZZZZ	494663	4.51	277038	6.03	423502	7.31	321416	9.84	204177	11.95
ZZZZZZ	479135	4.51	268303	6.03	409547	7.31	310410	9.84	198897	11.95
ZZZZZZ	480237	4.51	270069	6.03	411649	7.31	323549	9.84	198009	11.95
OP43892-MB	526456	4.51	288714	6.03	447909	7.31	355542	9.84	225195	11.95
ZZZZZZ	399507	4.51	250206	6.04	341322	7.32	278887	9.84	180475	11.95
OP43940-MB	521230	4.51	290130	6.03	450145	7.31	350744	9.84	232625	11.95
ZZZZZZ	492423	4.51	282360	6.03	437981	7.31	345873	9.84	237716	11.95
ZZZZZZ	480126	4.51	271417	6.03	422059	7.32	347001	9.85	223604	11.97
ZZZZZZ	531235	4.51	293665	6.04	438456	7.32	345404	9.86	216029	11.98
ZZZZZZ	433416	4.51	246102	6.04	377247	7.32	308760	9.85	198186	11.97
ZZZZZZ	423288	4.51	245799	6.04	372725	7.32	310230	9.86	199980	11.98
ZZZZZZ	483267	4.51	263186	6.04	403824	7.32	327058	9.86	198993	11.98

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3297-CC3290	**Injection Date:**	10/15/12
Lab File ID:	W068007.D	**Injection Time:**	10:07
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SW3299-CC3290	**Injection Date:**	10/16/12
Lab File ID:	W068053.D	**Injection Time:**	10:59
Instrument ID:	GCMSW	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	422603	4.58	239379	6.12	378052	7.40	314942	9.96	205096	12.12
Check Std [b]	419284	4.49	237479	6.03	369689	7.31	301906	9.83	196766	11.94
Upper Limit [c]	838568	4.99	474958	6.53	739378	7.81	603812	10.33	393532	12.44
Lower Limit [d]	209642	3.99	118740	5.53	184845	6.81	150953	9.33	98383	11.44

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP43902-MB	498098	4.49	280371	6.03	449236	7.31	344297	9.83	222109	11.94
F97561-7	367906	4.49	212204	6.03	331350	7.31	262872	9.83	169921	11.93
ZZZZZZ	486700	4.49	278126	6.03	435551	7.31	348770	9.83	225037	11.93
OP43946-BS	405802	4.49	240331	6.03	369222	7.31	302093	9.83	201436	11.94
OP43946-MB	401091	4.49	226972	6.03	356589	7.31	279956	9.83	178545	11.93
OP43946-BS	451107	4.49	233089	6.03	366522	7.31	294340	9.83	197712	11.93
ZZZZZZ	338656	4.50	188922	6.03	300144	7.31	239116	9.83	152413	11.95
ZZZZZZ	340617	4.49	191769	6.03	294092	7.30	230674	9.83	149880	11.94
ZZZZZZ	361754	4.49	196170	6.03	303557	7.31	245334	9.84	162298	11.94
ZZZZZZ	357811	4.49	200846	6.03	309306	7.31	257317	9.83	172488	11.94
ZZZZZZ	445081	4.49	247883	6.03	396465	7.31	332235	9.83	223069	11.94
ZZZZZZ	414949	4.49	235867	6.03	362135	7.31	287626	9.83	191700	11.94
ZZZZZZ	418281	4.49	234998	6.03	368625	7.30	295967	9.83	188382	11.94
F97654-2	360719	4.49	205343	6.03	312095	7.31	255315	9.83	171642	11.93
OP43946-MS [e]	407882	4.49	232325	6.03	362237	7.31	297455	9.83	203795	11.94
OP43946-MSD [e]	389602	4.49	221904	6.03	349296	7.31	285057	9.83	191471	11.93

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: SW3290-ICC3290 W067842.D 10/05/12 16:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Dilution required due to matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX1251-CC1244	**Injection Date:**	10/10/12
Lab File ID:	X025911.D	**Injection Time:**	11:36
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	253473	3.74	971440	4.68	509318	6.45	752872	8.62	496260	13.36	405434	15.80
Check Std [b]	285044	3.53	1094827	4.46	574352	6.10	848239	8.18	545970	12.85	441029	15.27
Upper Limit [c]	570088	4.03	2189654	4.96	1148704	6.60	1696478	8.68	1091940	13.35	882058	15.77
Lower Limit [d]	142522	3.03	547414	3.96	287176	5.60	424120	7.68	272985	12.35	220515	14.77

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP43901-BS	183268	3.52	742163	4.46	393136	6.09	606977	8.18	420734	12.84	358887	15.27
OP43901-MB	194803	3.51	774205	4.46	408479	6.09	622324	8.17	439285	12.83	359319	15.25
F97553-5	231228	3.52	918904	4.46	493793	6.09	768343	8.17	530665	12.83	427852	15.25
OP43901-MS1	187315	3.52	747152	4.46	395538	6.09	598699	8.18	396035	12.84	324450	15.25
OP43901-MSD1	199620	3.52	813328	4.46	436663	6.09	672519	8.18	453234	12.84	363564	15.26
F97561-5	201227	3.51	810935	4.46	431433	6.09	674012	8.17	476067	12.83	384431	15.25
F97561-6	245556	3.52	997781	4.46	518838	6.09	826605	8.17	599079	12.84	502502	15.26
ZZZZZZ	218440	3.51	919236	4.46	478791	6.09	750288	8.17	534727	12.84	427863	15.26
ZZZZZZ	228561	3.51	898127	4.46	474075	6.09	743248	8.17	534198	12.83	444130	15.26
ZZZZZZ	232652	3.51	913286	4.46	492615	6.09	760480	8.17	535579	12.84	441115	15.26
ZZZZZZ	244065	3.51	953781	4.46	508328	6.09	813654	8.17	582451	12.83	475452	15.26
ZZZZZZ	212953	3.51	850530	4.46	452437	6.09	715507	8.17	507701	12.83	416901	15.26
OP43884-MB	283607	3.51	1121441	4.46	583779	6.09	902706	8.17	647342	12.84	529245	15.26
ZZZZZZ	179666	3.51	707159	4.45	367564	6.08	564476	8.16	417181	12.84	350485	15.27
ZZZZZZ	195290	3.51	779851	4.45	403370	6.08	624601	8.17	462665	12.84	384295	15.27
ZZZZZZ	195935	3.51	758768	4.45	384971	6.08	588093	8.17	402126	12.85	346659	15.27

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1244-ICC1244 X025741.D 10/01/12 14:05
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F97561-4	U034175.D	36.0	24.0	84.0	73.0	72.0	85.0
F97561-5	X025920.D	38.0	26.0	75.0	64.0	67.0	77.0
F97561-6	X025921.D	36.0	24.0	73.0	62.0	62.0	71.0
F97561-7	T004533.D	46.0	31.0	95.0	88.0	81.0	91.0
OP43879-BS	U034154.D	38.0	25.0	75.0	70.0	72.0	82.0
OP43879-MB	U034155.D	43.0	30.0	72.0	69.0	68.0	89.0
OP43879-MB	U034205.D	42.0	29.0	72.0	69.0	67.0	86.0
OP43879-MB	L059907.D	44.0	31.0	79.0	74.0	72.0	81.0
OP43879-MS	U034162.D	55.0	46.0* [a]	88.0	74.0	76.0	88.0
OP43879-MSD	U034163.D	44.0	36.0	80.0	62.0	67.0	81.0
OP43901-BS	X025912.D	47.0	33.0	84.0	78.0	78.0	86.0
OP43901-MB	X025913.D	53.0	37.0	84.0	77.0	76.0	92.0
OP43901-MB	T004529.D	48.0	35.0	83.0	73.0	72.0	88.0
OP43901-MS2	T004531.D	71.0* [a]	55.0* [a]	103.0	90.0	93.0	99.0
OP43901-MSD2	T004532.D	62.0	46.0* [a]	91.0	80.0	80.0	88.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-62%
S2 = Phenol-d5	10-40%
S3 = 2,4,6-Tribromophenol	33-118%
S4 = Nitrobenzene-d5	42-108%
S5 = 2-Fluorobiphenyl	40-106%
S6 = Terphenyl-d14	39-121%

(a) Outside control limits.

Semivolatile Surrogate Recovery Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F97561-4	W067900.D	92.0 [a]	78.0 [a]	70.0 [a]	79.0 [a]
F97561-5	W067994.D	87.0 [a]	60.0 [a]	54.0 [a]	67.0 [a]
F97561-6	W067995.D	80.0 [a]	63.0 [a]	53.0 [a]	65.0 [a]
F97561-7	W068056.D	0.0* [b]	0.0* [b]	0.0* [b]	0.0* [b]
OP43882-BS	W067893.D	84.0	73.0	73.0	82.0
OP43882-MB	W067894.D	74.0 [a]	72.0 [a]	62.0 [a]	79.0 [a]
OP43882-MS	W067901.D	94.0	78.0	76.0	90.0
OP43882-MSD	W067902.D	92.0	77.0	75.0	88.0
OP43902-BS	W067990.D	96.0	82.0	81.0	93.0
OP43902-BS	W068008.D	90.0	81.0	79.0	93.0
OP43902-MB	W067991.D	80.0 [a]	75.0 [a]	62.0 [a]	76.0 [a]
OP43902-MB	W068009.D	76.0 [a]	71.0 [a]	59.0 [a]	76.0 [a]
OP43902-MB	W068055.D	75.0 [a]	71.0 [a]	59.0 [a]	72.0 [a]
OP43902-MS2	W068015.D	0.0* [b]	0.0* [b]	0.0* [b]	0.0* [b]
OP43902-MSD2	W068016.D	0.0* [b]	0.0* [b]	0.0* [b]	0.0* [b]

Surrogate Compounds	Recovery Limits
S1 = 2,4,6-Tribromophenol	33-118%
S2 = Nitrobenzene-d5	42-108%
S3 = 2-Fluorobiphenyl	40-106%
S4 = Terphenyl-d14	39-121%

(a) Surrogate recoveries corrected for actual spike amount.
(b) Outside control limits due to dilution.

Initial Calibration Summary

Job Number: F97561A **Sample:** SL3045-ICC3045
Account: CSXT CSX Transportation **Lab FileID:** L059830.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA02

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 07:54:31 2012
Response via : Initial Calibration

Calibration Files
5 =L059827.D 10 =L059828.D 25 =L059829.D 50 =L059830.D
60 =L059831.D 75 =L059832.D 100 =L059833.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.589	0.545	0.558	0.566	0.550	0.560	0.570	0.563	2.58
3) N-nitrosodimethyl	0.627	0.606	0.595	0.597	0.582	0.583	0.591	0.597	2.60
4) Pyridine	1.664	1.562	1.555	1.541	1.513	1.515	1.536	1.555	3.31
5)P Benzaldehyde	1.179	1.132	1.135	0.998	0.985	0.916	0.728	1.011	15.56
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 1.31385 *A + -0.22931 *A^2									
6) Aniline	2.475	2.375	2.170	1.910	1.830	1.749	1.648	2.022	15.83
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 2.19662 *A + -0.22544 *A^2									
7)S 2-Fluorophenol	1.578	1.507	1.441	1.333	1.304	1.255	1.209	1.375	9.92
8)P bis(2-Chloroethyl	1.572	1.497	1.442	1.353	1.327	1.293	1.300	1.398	7.70
9)S Phenol-d5	2.053	1.930	1.764	1.560	1.487	1.430	1.345	1.653	16.18
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 1.78851 *A + -0.09098 *A^2									
10)P Phenol	2.254	2.148	1.952	1.720	1.634	1.573	1.479	1.823	16.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 1.97414 *A + -0.20360 *A^2									
11)P 2-Chlorophenol	1.656	1.531	1.519	1.449	1.400	1.391	1.379	1.475	6.81
12) 1,3-Dichlorobenze	1.822	1.738	1.652	1.518	1.496	1.478	1.432	1.591	9.29
13) 1,4-Dichlorobenze	1.765	1.686	1.614	1.512	1.476	1.448	1.396	1.557	8.68
14) 1,2-Dichlorobenze	1.676	1.589	1.547	1.448	1.418	1.396	1.331	1.486	8.16
15) Benzyl alcohol	1.067	1.061	1.054	1.007	0.996	0.982	0.985	1.022	3.67
16)P bis(2-chloroisopr	1.581	1.489	1.418	1.320	1.282	1.217	1.187	1.356	10.73
17)P 2-Methylphenol	1.546	1.433	1.383	1.305	1.261	1.197	1.177	1.329	10.03
18)P Acetophenone	2.207	2.053	1.971	1.789	1.722	1.695	1.595	1.862	11.85
19)P Hexachloroethane	0.648	0.620	0.644	0.611	0.592	0.588	0.600	0.615	3.94
20)P N-Nitroso-di-n-pr	1.056	0.984	0.983	0.881	0.861	0.808	0.770	0.906	11.48
21)P 3&4-Methylphenol	1.603	1.514	1.461	1.328	1.288	1.209	1.149	1.365	12.21
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 1.50732 *A + -0.14664 *A^2									
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.484	0.464	0.439	0.416	0.412	0.396	0.401	0.430	7.75
24)P Nitrobenzene	0.467	0.442	0.421	0.397	0.382	0.373	0.368	0.407	9.22
25)P Isophorone	0.851	0.804	0.750	0.709	0.692	0.686	0.700	0.742	8.54
26)P 2-Nitrophenol	0.239	0.235	0.236	0.230	0.228	0.223	0.219	0.230	3.15
27)P 2,4-Dimethylpheno	0.483	0.474	0.442	0.417	0.407	0.394	0.390	0.430	8.72
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.44242 *A + -0.02201 *A^2									

Initial Calibration Summary

Job Number: F97561A **Sample:** SL3045-ICC3045
Account: CSXT CSX Transportation **Lab FileID:** L059830.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

28)P	bis(2-Chloroethox	0.524	0.498	0.466	0.438	0.432	0.418	0.407	0.455	9.51
29)	Benzoic Acid	0.333	0.364	0.385	0.398	0.368	0.384	0.416	0.378	7.12
30)P	2,4-Dichloropheno	0.379	0.363	0.346	0.326	0.325	0.318	0.311	0.338	7.49
31)	1,2,4-Trichlorobe	0.419	0.383	0.377	0.354	0.344	0.335	0.331	0.363	8.72
32)P	Naphthalene	1.264	1.169	1.101	0.990	0.955	0.918	0.872	1.038	13.82
33)P	4-Chloroaniline	0.546	0.531	0.493	0.466	0.458	0.445	0.430	0.481	9.07
34)	2,6-Dichloropheno	0.369	0.345	0.338	0.317	0.308	0.306	0.295	0.325	8.07
35)P	Hexachlorobutadie	0.223	0.217	0.212	0.200	0.195	0.195	0.190	0.205	6.21
36)P	Caprolactam	0.141	0.135	0.134	0.132	0.132	0.132	0.137	0.135	2.47
37)P	4-Chloro-3-methyl	0.398	0.384	0.373	0.355	0.353	0.349	0.351	0.366	5.22
38)P	2-Methylnaphthale	0.854	0.814	0.766	0.707	0.695	0.668	0.651	0.736	10.42
39)	1-Methylnaphthale	0.794	0.741	0.703	0.648	0.634	0.618	0.597	0.676	10.66
40)P	1,2,4,5-Tetrachlo	0.394	0.375	0.352	0.329	0.323	0.310	0.310	0.342	9.60
41) I	Acenaphthene-d10	----------ISTD----------								
42)P	Hexachlorocyclope	0.373	0.357	0.374	0.373	0.368	0.374	0.362	0.369	1.79
43)P	2,4,6-Trichloroph	0.480	0.460	0.437	0.425	0.416	0.424	0.412	0.436	5.70
44)P	2,4,5-Trichloroph	0.492	0.471	0.457	0.443	0.428	0.438	0.424	0.450	5.46
45)S	2-Fluorobiphenyl	1.619	1.500	1.430	1.322	1.261	1.266	1.192	1.370	11.12
46)P	1,1'-Biphenyl	1.731	1.638	1.551	1.430	1.384	1.389	1.265	1.484	10.98
47)P	2-Chloronaphthale	1.416	1.285	1.232	1.157	1.115	1.120	1.062	1.198	10.20
48)P	2-Nitroaniline	0.379	0.339	0.351	0.348	0.335	0.349	0.345	0.349	4.09
49)	p-Dinitrobenzene	0.220	0.237	0.239	0.248	0.244	0.253	0.256	0.242	4.90
50)P	Acenaphthylene	2.206	2.026	1.918	1.775	1.699	1.670	1.568	1.837	12.19
51)P	Dimethylphthalate	1.592	1.486	1.436	1.348	1.295	1.290	1.237	1.383	9.15
52)	m-Dinitrobenzene	0.242	0.236	0.251	0.253	0.245	0.248	0.251	0.246	2.36
53)P	2,6-Dinitrotoluen	0.356	0.335	0.339	0.333	0.322	0.334	0.327	0.335	3.21
54)	o-Dinitrobenzene	0.213	0.209	0.205	0.199	0.188	0.193	0.185	0.199	5.33
55)P	Acenaphthene	1.353	1.263	1.203	1.143	1.096	1.085	1.047	1.170	9.37
56)P	3-Nitroaniline	0.399	0.383	0.397	0.391	0.377	0.392	0.389	0.390	1.95
57)P	2,4-Dinitrophenol	0.093	0.119	0.168	0.203	0.205	0.220	0.231	0.177	29.79
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
	Response Ratio = 0.00000 + 0.16261 *A + 0.02834 *A^2									
58)P	Dibenzofuran	1.883	1.750	1.635	1.522	1.441	1.440	1.362	1.576	11.96
59)P	2,4-Dinitrotoluen	0.432	0.433	0.433	0.416	0.401	0.403	0.400	0.417	3.81
60)P	4-Nitrophenol	0.208	0.212	0.211	0.215	0.215	0.220	0.221	0.215	2.24
61)	2,3,5,6-Tetrachlo	0.368	0.354	0.354	0.357	0.341	0.349	0.352	0.354	2.34
62)P	2,3,4,6-Tetrachlo	0.357	0.352	0.356	0.356	0.335	0.342	0.344	0.349	2.43
63)P	Fluorene	1.528	1.445	1.361	1.292	1.245	1.241	1.185	1.328	9.26
64)P	4-Chlorophenyl-ph	0.739	0.681	0.644	0.627	0.597	0.602	0.578	0.638	8.77
65)P	Diethylphthalate	1.612	1.498	1.374	1.330	1.272	1.266	1.215	1.367	10.38
66)P	4-Nitroaniline	0.398	0.370	0.363	0.367	0.350	0.354	0.364	0.367	4.23
67) I	Phenanthrene-d10	----------ISTD----------								
68)P	4,6-Dinitro-2-met	0.111	0.126	0.155	0.166	0.164	0.167	0.171	0.151	15.44
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
	Response Ratio = 0.00000 + 0.15289 *A + 0.00731 *A^2									
69)P	n-Nitrosodiphenyl	0.684	0.638	0.629	0.588	0.576	0.563	0.541	0.603	8.24
70)	1,2-Diphenylhydra	0.872	0.835	0.805	0.748	0.734	0.712	0.678	0.769	9.11
71)S	2,4,6-Tribromophe	0.123	0.118	0.117	0.112	0.111	0.111	0.110	0.115	4.13
72)P	4-Bromophenyl-phe	0.262	0.251	0.245	0.239	0.230	0.227	0.227	0.240	5.50
73)P	Hexachlorobenzene	0.283	0.270	0.264	0.249	0.239	0.241	0.238	0.255	6.85
74)	Simazine	0.113	0.105	0.111	0.104	0.105	0.104	0.105	0.107	3.40
75)P	Atrazine	0.255	0.244	0.249	0.232	0.230	0.224	0.223	0.237	5.28
76)P	Pentachlorophenol	0.128	0.135	0.155	0.164	0.164	0.167	0.173	0.155	11.02
77)P	Phenanthrene	1.265	1.210	1.145	1.065	1.029	0.998	0.967	1.097	10.23
78)P	Anthracene	1.276	1.232	1.175	1.088	1.064	1.023	0.997	1.122	9.55
79)P	Carbazole	1.220	1.167	1.111	1.046	1.014	0.985	0.959	1.072	9.08

Initial Calibration Summary

Job Number: F97561A **Sample:** SL3045-ICC3045
Account: CSXT CSX Transportation **Lab FileID:** L059830.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

80)P Di-n-butylphthala	1.397	1.332	1.341	1.232	1.197	1.152	1.107	1.251	8.62
81)P Fluoranthene	1.290	1.244	1.194	1.118	1.083	1.053	1.019	1.143	8.90
82) I Chrysene-d12	----------ISTD----------								
83) Benzidine	0.807	0.800	0.800	0.782	0.780	0.762	0.670	0.772	6.13
84)P Pyrene	1.424	1.364	1.307	1.255	1.264	1.238	1.248	1.300	5.38
85)S Terphenyl-d14	0.978	0.988	0.971	0.941	0.935	0.929	0.943	0.955	2.46
86)P Butylbenzylphthal	0.598	0.601	0.608	0.625	0.614	0.619	0.632	0.614	2.03
87)P 3,3'-Dichlorobenz	0.473	0.461	0.465	0.462	0.463	0.450	0.439	0.459	2.46
88)P Benzo[a]anthracen	1.226	1.202	1.170	1.155	1.161	1.143	1.156	1.173	2.54
89)P Chrysene	1.142	1.116	1.076	1.038	1.032	1.005	1.007	1.059	5.05
90)P bis(2-Ethylhexyl)	0.786	0.788	0.809	0.799	0.802	0.803	0.801	0.798	1.06
91) I Perylene-d12	----------ISTD----------								
92)P Di-n-octylphthala	1.344	1.365	1.478	1.490	1.457	1.434	1.384	1.422	4.06
93)P Benzo[b]fluoranth	1.278	1.211	1.223	1.208	1.155	1.165	1.156	1.199	3.73
94)P Benzo[k]fluoranth	1.305	1.257	1.242	1.166	1.153	1.131	1.097	1.193	6.34
95)P Benzo[a]pyrene	1.179	1.141	1.155	1.137	1.104	1.106	1.103	1.132	2.59
96)P Indeno[1,2,3-cd]p	0.867	0.853	0.883	0.926	0.939	0.952	1.003	0.918	5.79
97)P Dibenz[a,h]anthra	0.928	0.893	0.905	0.977	0.965	0.993	0.999	0.952	4.47
98)P Benzo[g,h,i]peryl	1.012	0.979	0.984	1.003	0.982	1.016	1.039	1.002	2.21

(#) = Out of Range

8270d.m Wed Oct 10 08:13:23 2012

6.7.1

6

Initial Calibration Verification

Job Number: F97561A **Sample:** SL3045-ICV3045
Account: CSXT CSX Transportation **Lab FileID:** L059834.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\L059834.D Vial: 9
Acq On : 9 Oct 2012 2:32 pm Operator: nancyf
Sample : icv3045-50 Inst : MSBNA02
Misc : op43153,sl3045,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 07:54:31 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	143	0.00	5.00
2		1,4-Dioxane	50.000	47.087	5.8	134	0.03	2.62
3		N-nitrosodimethylamine	50.000	46.795	6.4	134	0.02	2.89
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	46.673	6.7	140	0.00	4.66
6		Aniline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	44.761	10.5	132	0.00	4.79
		----------	Amount	Calc.	%Drift		----------	
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	47.516	5.0	137	0.00	4.74
		----------	Amount	Calc.	%Drift		----------	
11	P	2-Chlorophenol	50.000	45.548	8.9	133	0.00	4.84
12		1,3-Dichlorobenzene	50.000	44.918	10.2	135	0.00	4.96
13		1,4-Dichlorobenzene	50.000	45.154	9.7	133	0.00	5.01
14		1,2-Dichlorobenzene	50.000	46.116	7.8	136	0.00	5.14
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	42.883	14.2	126	0.00	5.21
17	P	2-Methylphenol	50.000	42.062	15.9	123	0.00	5.21
18	P	Acetophenone	50.000	44.980	10.0	134	0.00	5.32
19	P	Hexachloroethane	50.000	48.555	2.9	140	0.00	5.42
20	P	N-Nitroso-di-n-propylamin	50.000	43.011	14.0	127	0.00	5.32
		----------	Amount	Calc.	%Drift		----------	
21	P	3&4-Methylphenol	100.000	89.713	10.3	126	0.00	5.34
		----------	Amount	Calc.	%Drift		----------	
22	I	Naphthalene-d8	40.000	40.000	0.0	135	0.00	6.14
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	47.679	4.6	132	0.00	5.47
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol	50.000	47.383	5.2	128	0.00	5.76
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3045-ICV3045
Lab FileID: L059834.D

27	P	2,4-Dimethylphenol	50.000	40.825	18.3	111	0.00	5.81
			Amount	Calc.	%Drift			
28	P	bis(2-Chloroethoxy)methan	50.000	45.823	8.4	129	0.00	5.89
29		Benzoic Acid	100.000	87.972	12.0	103	0.04	5.98
30	P	2,4-Dichlorophenol	50.000	45.496	9.0	128	0.00	6.00
31		1,2,4-Trichlorobenzene	50.000	46.755	6.5	130	0.00	6.08
32	P	Naphthalene	50.000	44.807	10.4	127	0.00	6.16
33	P	4-Chloroaniline		NA				
34		2,6-Dichlorophenol	50.000	47.277	5.4	131	0.00	6.23
35	P	Hexachlorobutadiene	50.000	49.172	1.7	136	0.00	6.30
36	P	Caprolactam	50.000	44.086	11.8	122	0.00	6.63
37	P	4-Chloro-3-methylphenol	50.000	44.238	11.5	123	0.00	6.78
38	P	2-Methylnaphthalene		NA				
39		1-Methylnaphthalene	50.000	47.174	5.7	133	0.00	7.08
40	P	1,2,4,5-Tetrachlorobenzen	50.000	45.085	9.8	127	0.00	7.17
41	I	Acenaphthene-d10	40.000	40.000	0.0	135	0.00	8.41
42	P	Hexachlorocyclopentadiene	50.000	52.320	-4.6	139	0.00	7.17
43	P	2,4,6-Trichlorophenol	50.000	46.426	7.1	128	0.00	7.33
44	P	2,4,5-Trichlorophenol	50.000	46.508	7.0	127	0.00	7.39
45	S	2-Fluorobiphenyl		NA				
46	P	1,1'-Biphenyl	50.000	45.580	8.8	127	0.00	7.57
47	P	2-Chloronaphthalene	50.000	45.135	9.7	126	0.00	7.59
48	P	2-Nitroaniline		NA				
49		p-Dinitrobenzene		NA				
50	P	Acenaphthylene	50.000	44.696	10.6	125	0.00	8.19
51	P	Dimethylphthalate	50.000	44.331	11.3	123	0.00	8.03
52		m-Dinitrobenzene		NA				
53	P	2,6-Dinitrotoluene	50.000	43.835	12.3	119	0.00	8.11
54		o-Dinitrobenzene		NA				
55	P	Acenaphthene	50.000	46.336	7.3	128	0.00	8.47
56	P	3-Nitroaniline		NA				
			Amount	Calc.	%Drift			
57	P	2,4-Dinitrophenol	100.000	81.644	18.4	98	0.00	8.52
			Amount	Calc.	%Drift			
58	P	Dibenzofuran		NA				
59	P	2,4-Dinitrotoluene	50.000	44.903	10.2	121	0.00	8.74
60	P	4-Nitrophenol	100.000	82.943	17.1	101	0.01	8.71
61		2,3,5,6-Tetrachlorophenol		NA				
62	P	2,3,4,6-Tetrachlorophenol	50.000	45.797	8.4	121	0.00	8.96
63	P	Fluorene	50.000	44.167	11.7	122	0.00	9.29
64	P	4-Chlorophenyl-phenylethe	50.000	44.636	10.7	122	0.00	9.32
65	P	Diethylphthalate	50.000	42.939	14.1	119	0.00	9.18
66	P	4-Nitroaniline		NA				
67	I	Phenanthrene-d10	40.000	40.000	0.0	119	0.00	10.91
			Amount	Calc.	%Drift			
68	P	4,6-Dinitro-2-methylpheno	100.000	98.953	1.0	109	0.00	9.42
			Amount	Calc.	%Drift			
69	P	n-Nitrosodiphenylamine	50.000	47.117	5.8	96	0.00	9.53
70		1,2-Diphenylhydrazine	50.000	48.595	2.8	119	0.00	9.59
71	S	2,4,6-Tribromophenol		NA				
72	P	4-Bromophenyl-phenylether	50.000	50.104	-0.2	119	0.00	10.16
73	P	Hexachlorobenzene	50.000	47.582	4.8	115	0.00	10.24
74		Simazine		NA				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3045-ICV3045
Lab FileID: L059834.D

75	P	Atrazine	50.000	47.682	4.6	115	0.00	10.53
76	P	Pentachlorophenol	100.000	99.278	0.7	98	0.00	10.61
77	P	Phenanthrene	50.000	46.922	6.2	115	0.00	10.95
78	P	Anthracene	50.000	46.849	6.3	115	0.00	11.04
79	P	Carbazole		----------NA----------				
80	P	Di-n-butylphthalate	50.000	45.139	9.7	109	0.00	12.13
81	P	Fluoranthene	50.000	42.920	14.2	104	0.00	13.12
82	I	Chrysene-d12	40.000	40.000	0.0	102	0.00	15.81
83		Benzidine		----------NA----------				
84	P	Pyrene	50.000	52.412	-4.8	111	0.00	13.52
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate	50.000	50.291	-0.6	101	0.00	14.93
87	P	3,3'-Dichlorobenzidine		----------NA----------				
88	P	Benzo[a]anthracene	50.000	48.254	3.5	100	0.00	15.79
89	P	Chrysene	50.000	47.287	5.4	98	0.00	15.86
90	P	bis(2-Ethylhexyl)phthalat	50.000	48.323	3.4	98	0.00	16.10
91	I	Perylene-d12	40.000	40.000	0.0	101	0.00	18.30
92	P	Di-n-octylphthalate	50.000	47.627	4.7	92	0.00	17.28
93	P	Benzo[b]fluoranthene	50.000	47.006	6.0	94	0.00	17.69
94	P	Benzo[k]fluoranthene	50.000	46.542	6.9	96	0.00	17.74
95	P	Benzo[a]pyrene	50.000	45.522	9.0	92	0.00	18.21
96	P	Indeno[1,2,3-cd]pyrene	50.000	54.963	-9.9	110	0.00	19.87
97	P	Dibenz[a,h]anthracene	50.000	54.011	-8.0	106	0.00	19.92
98	P	Benzo[g,h,i]perylene	50.000	52.173	-4.3	105	0.00	20.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L059830.D 8270d.m Wed Oct 10 08:08:19 2012

6.7.2
6

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3045-ICV3045
Lab FileID: L059835.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\L059835.D Vial: 10
Acq On : 9 Oct 2012 3:02 pm Operator: nancyf
Sample : icv3045-50 Inst : MSBNA02
Misc : op43153,sl3045,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 07:54:31 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	110	0.00	4.99
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	47.615	4.8	106	0.00	2.89
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde	25.000	27.843	-11.4	119	0.00	4.65
6		Aniline	50.000	52.009	-4.0	114	0.00	4.74
		----------	Amount	Calc.	%Drift	----------		
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	49.287	1.4	110	0.00	5.11
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
21	P	3&4-Methylphenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
22	I	Naphthalene-d8	40.000	40.000	0.0	108	0.00	6.14
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	44.813	10.4	101	-0.01	5.68
26	P	2-Nitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
27	P	2,4-Dimethylphenol		----------NA----------				

Initial Calibration Verification

Job Number: F97561A **Sample:** SL3045-ICV3045
Account: CSXT CSX Transportation **Lab FileID:** L059835.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			Amount	Calc.	%Drift			
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	45.567	8.9	102	0.00	6.21
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	47.694	4.6	108	0.00	6.95
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	110	0.00	8.41
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	59.480	-19.0	132	0.00	7.75
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene		----------NA----------				
51	P	Dimethylphthalate		----------NA----------				
52		m-Dinitrobenzene	50.000	49.264	1.5	106	-0.01	8.05
53	P	2,6-Dinitrotoluene		----------NA----------				
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene		----------NA----------				
56	P	3-Nitroaniline	50.000	47.244	5.5	104	0.00	8.36
			Amount	Calc.	%Drift			
57	P	2,4-Dinitrophenol		----------NA----------				
			Amount	Calc.	%Drift			
58	P	Dibenzofuran	50.000	50.130	-0.3	114	0.00	8.73
59	P	2,4-Dinitrotoluene		----------NA----------				
60	P	4-Nitrophenol		----------NA----------				
61		2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Fluorene		----------NA----------				
64	P	4-Chlorophenyl-phenylethe		----------NA----------				
65	P	Diethylphthalate		----------NA----------				
66	P	4-Nitroaniline	50.000	51.985	-4.0	114	-0.01	9.35
67	I	Phenanthrene-d10	40.000	40.000	0.0	108	0.00	10.90
			Amount	Calc.	%Drift			
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
			Amount	Calc.	%Drift			
69	P	n-Nitrosodiphenylamine		----------NA----------				
70		1,2-Diphenylhydrazine		----------NA----------				
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether		----------NA----------				
73	P	Hexachlorobenzene		----------NA----------				
74		Simazine	50.000	67.742	-35.5#	150	-0.01	10.45
75	P	Atrazine		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SL3045-ICV3045
Lab FileID: L059835.D

76	P	Pentachlorophenol		----------NA----------				
77	P	Phenanthrene		----------NA----------				
78	P	Anthracene		----------NA----------				
79	P	Carbazole	50.000	49.661	0.7	110	0.00	11.36
80	P	Di-n-butylphthalate		----------NA----------				
81	P	Fluoranthene		----------NA----------				
82	I	Chrysene-d12	40.000	40.000	0.0	116	-0.01	15.80
83		Benzidine	50.000	47.038	5.9	108	0.00	13.44
84	P	Pyrene		----------NA----------				
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate		----------NA----------				
87	P	3,3'-Dichlorobenzidine	50.000	40.460	19.1	93	0.00	15.82
88	P	Benzo[a]anthracene		----------NA----------				
89	P	Chrysene		----------NA----------				
90	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
91	I	Perylene-d12	40.000	40.000	0.0	125	0.00	18.30
92	P	Di-n-octylphthalate		----------NA----------				
93	P	Benzo[b]fluoranthene		----------NA----------				
94	P	Benzo[k]fluoranthene		----------NA----------				
95	P	Benzo[a]pyrene		----------NA----------				
96	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
97	P	Dibenz[a,h]anthracene		----------NA----------				
98	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L059830.D 8270d.m Wed Oct 10 08:11:58 2012

Continuing Calibration Summary

Job Number: F97561A **Sample:** SL3049-CC3045
Account: CSXT CSX Transportation **Lab FileID:** L059893.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\101112\L059893.D Vial: 2
Acq On : 11 Oct 2012 9:38 am Operator: nancyf
Sample : cc3045-50 Inst : MSBNA02
Misc : op43153,sl3049,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 11:05:26 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	143	0.00	4.95
2		1,4-Dioxane	0.563	0.562	0.2	142	-0.04	2.53
3		N-nitrosodimethylamine	0.597	0.592	0.8	142	-0.03	2.81
4		Pyridine	1.555	1.560	-0.3	145	-0.03	2.84
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	52.703	-5.4	153	0.00	4.61
6		Aniline	50.000	46.675	6.7	135	0.00	4.69
			AvgRF	CCRF	%Dev			
7	S	2-Fluorophenol	1.375	1.288	6.3	138	0.00	3.97
8	P	bis(2-Chloroethyl)ether	1.398	1.366	2.3	145	0.00	4.74
			Amount	Calc.	%Drift			
9	S	Phenol-d5	100.000	95.144	4.9	137	0.00	4.68
10	P	Phenol	50.000	48.334	3.3	139	0.00	4.69
			AvgRF	CCRF	%Dev			
11	P	2-Chlorophenol	1.475	1.464	0.7	145	0.00	4.79
12		1,3-Dichlorobenzene	1.591	1.571	1.3	148	0.00	4.90
13		1,4-Dichlorobenzene	1.557	1.528	1.9	145	0.00	4.96
14		1,2-Dichlorobenzene	1.486	1.481	0.3	147	0.00	5.08
15		Benzyl alcohol	1.022	1.007	1.5	143	0.00	5.06
16	P	bis(2-chloroisopropyl)eth	1.356	1.348	0.6	146	0.00	5.16
17	P	2-Methylphenol	1.329	1.293	2.7	142	0.00	5.15
18	P	Acetophenone	1.862	1.754	5.8	141	0.00	5.27
19	P	Hexachloroethane	0.615	0.639	-3.9	150	0.00	5.36
20	P	N-Nitroso-di-n-propylamin	0.906	0.846	6.6	138	0.00	5.27
			Amount	Calc.	%Drift			
21	P	3&4-Methylphenol	50.000	47.941	4.1	138	0.00	5.28
			AvgRF	CCRF	%Dev			
22	I	Naphthalene-d8	1.000	1.000	0.0	138	0.00	6.08
23	S	Nitrobenzene-d5	0.430	0.433	-0.7	143	0.00	5.40
24	P	Nitrobenzene	0.407	0.408	-0.2	141	0.00	5.42
25	P	Isophorone	0.742	0.730	1.6	142	0.00	5.63
26	P	2-Nitrophenol	0.230	0.240	-4.3	144	0.00	5.70
			Amount	Calc.	%Drift			
27	P	2,4-Dimethylphenol	50.000	51.297	-2.6	140	0.00	5.75

Continuing Calibration Summary

Job Number: F97561A **Sample:** SL3049-CC3045
Account: CSXT CSX Transportation **Lab FileID:** L059893.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
28	P	bis(2-Chloroethoxy)methan	0.455	0.450	1.1	142	0.00	5.83
29		Benzoic Acid	0.378	0.370	2.1	128	0.00	5.88
30	P	2,4-Dichlorophenol	0.338	0.345	-2.1	146	0.00	5.94
31		1,2,4-Trichlorobenzene	0.363	0.369	-1.7	143	0.00	6.02
32	P	Naphthalene	1.038	0.991	4.5	138	0.00	6.10
33	P	4-Chloroaniline	0.481	0.470	2.3	139	0.00	6.16
34		2,6-Dichlorophenol	0.325	0.329	-1.2	143	0.00	6.17
35	P	Hexachlorobutadiene	0.205	0.214	-4.4	148	0.00	6.23
36	P	Caprolactam	0.135	0.135	0.0	140	0.00	6.56
37	P	4-Chloro-3-methylphenol	0.366	0.364	0.5	141	0.01	6.72
38	P	2-Methylnaphthalene	0.736	0.712	3.3	139	0.00	6.88
39		1-Methylnaphthalene	0.676	0.656	3.0	140	0.00	7.01
40	P	1,2,4,5-Tetrachlorobenzen	0.342	0.341	0.3	143	0.00	7.10
41	I	Acenaphthene-d10	1.000	1.000	0.0	137	0.00	8.34
42	P	Hexachlorocyclopentadiene	0.369	0.403	-9.2	148	0.00	7.10
43	P	2,4,6-Trichlorophenol	0.436	0.441	-1.1	142	0.00	7.26
44	P	2,4,5-Trichlorophenol	0.450	0.453	-0.7	140	0.00	7.32
45	S	2-Fluorobiphenyl	1.370	1.338	2.3	138	0.00	7.37
46	P	1,1'-Biphenyl	1.484	1.452	2.2	139	0.00	7.50
47	P	2-Chloronaphthalene	1.198	1.180	1.5	140	0.00	7.53
48	P	2-Nitroaniline	0.349	0.355	-1.7	140	0.00	7.67
49		p-Dinitrobenzene	0.242	0.253	-4.5	140	0.00	7.87
50	P	Acenaphthylene	1.837	1.754	4.5	135	0.00	8.12
51	P	Dimethylphthalate	1.383	1.330	3.8	135	0.00	7.97
52		m-Dinitrobenzene	0.246	0.253	-2.8	137	0.00	7.99
53	P	2,6-Dinitrotoluene	0.335	0.332	0.9	136	0.00	8.04
54		o-Dinitrobenzene	0.199	0.195	2.0	134	0.00	8.12
55	P	Acenaphthene	1.170	1.145	2.1	137	0.00	8.39
56	P	3-Nitroaniline	0.390	0.391	-0.3	137	0.00	8.30
			Amount	Calc.	%Drift			
57	P	2,4-Dinitrophenol	50.000	48.326	3.3	128	0.00	8.45
			AvgRF	CCRF	%Dev			
58	P	Dibenzofuran	1.576	1.529	3.0	138	0.00	8.66
59	P	2,4-Dinitrotoluene	0.417	0.412	1.2	135	0.00	8.67
60	P	4-Nitrophenol	0.215	0.210	2.3	133	0.00	8.63
61		2,3,5,6-Tetrachlorophenol	0.354	0.361	-2.0	138	0.00	8.81
62	P	2,3,4,6-Tetrachlorophenol	0.349	0.356	-2.0	137	0.01	8.88
63	P	Fluorene	1.328	1.291	2.8	137	0.01	9.22
64	P	4-Chlorophenyl-phenylethe	0.638	0.635	0.5	139	0.01	9.25
65	P	Diethylphthalate	1.367	1.285	6.0	132	0.01	9.11
66	P	4-Nitroaniline	0.367	0.359	2.2	134	0.01	9.29
67	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00	10.83
			Amount	Calc.	%Drift			
68	P	4,6-Dinitro-2-methylpheno	50.000	52.335	-4.7	133	0.00	9.34
			AvgRF	CCRF	%Dev			
69	P	n-Nitrosodiphenylamine	0.603	0.610	-1.2	135	0.00	9.46
70		1,2-Diphenylhydrazine	0.769	0.781	-1.6	136	-0.01	9.51
71	S	2,4,6-Tribromophenol	0.115	0.119	-3.5	138	-0.01	9.63
72	P	4-Bromophenyl-phenylether	0.240	0.253	-5.4	138	0.00	10.08
73	P	Hexachlorobenzene	0.255	0.264	-3.5	138	0.00	10.16
74		Simazine	0.107	0.105	1.9	131	0.00	10.39
75	P	Atrazine	0.237	0.241	-1.7	135	0.00	10.45

Continuing Calibration Summary

Job Number: F97561A **Sample:** SL3049-CC3045
Account: CSXT CSX Transportation **Lab FileID:** L059893.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

76	P	Pentachlorophenol	0.155	0.176	-13.5	140	0.00	10.53
77	P	Phenanthrene	1.097	1.079	1.6	132	0.00	10.87
78	P	Anthracene	1.122	1.113	0.8	133	0.00	10.96
79	P	Carbazole	1.072	1.047	2.3	130	0.00	11.29
80	P	Di-n-butylphthalate	1.251	1.237	1.1	130	0.01	12.05
81	P	Fluoranthene	1.143	1.110	2.9	129	0.02	13.04
82	I	Chrysene-d12	1.000	1.000	0.0	123	0.00	15.73
83		Benzidine	0.772	0.808	-4.7	128	-0.01	13.36
84	P	Pyrene	1.300	1.314	-1.1	129	-0.02	13.44
85	S	Terphenyl-d14	0.955	0.992	-3.9	130	0.00	13.84
86	P	Butylbenzylphthalate	0.614	0.655	-6.7	129	0.00	14.85
87	P	3,3'-Dichlorobenzidine	0.459	0.498	-8.5	133	0.00	15.75
88	P	Benzo[a]anthracene	1.173	1.218	-3.8	130	0.00	15.71
89	P	Chrysene	1.059	1.083	-2.3	129	0.00	15.78
90	P	bis(2-Ethylhexyl)phthalat	0.798	0.849	-6.4	131	0.00	16.02
91	I	Perylene-d12	1.000	1.000	0.0	122	0.00	18.22
92	P	Di-n-octylphthalate	1.422	1.557	-9.5	128	0.00	17.20
93	P	Benzo[b]fluoranthene	1.199	1.254	-4.6	127	0.00	17.61
94	P	Benzo[k]fluoranthene	1.193	1.208	-1.3	127	0.00	17.66
95	P	Benzo[a]pyrene	1.132	1.180	-4.2	127	0.00	18.13
96	P	Indeno[1,2,3-cd]pyrene	0.918	1.010	-10.0	133	0.00	19.79
97	P	Dibenz[a,h]anthracene	0.952	1.037	-8.9	130	0.00	19.83
98	P	Benzo[g,h,i]perylene	1.002	1.051	-4.9	128	0.00	20.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L059830.D 8270d.m Thu Oct 11 11:06:43 2012

Initial Calibration Summary

Job Number: F97561A **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA06

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:45:22 2012
Response via : Initial Calibration

Calibration Files
5 =T004464.D 10 =T004465.D 25 =T004466.D 50 =T004467.D
60 =T004468.D 75 =T004469.D 100 =T004470.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.746	0.710	0.705	0.714	0.695	0.705	0.712	0.712	2.25
3) N-nitrosodimethyl	0.688	0.678	0.637	0.647	0.628	0.631	0.639	0.650	3.64
4) Pyridine	1.359	1.415	1.474	1.548	1.431	1.516	1.549	1.471	4.91
5)P Benzaldehyde	1.160	1.192	1.117	0.992	0.890	0.807	0.654	0.973	20.58
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 1.28097 *A + -0.25144 *A^2									
6) Aniline	2.460	2.380	2.281	2.262	2.191	2.207	2.213	2.285	4.39
7)S 2-Fluorophenol	1.580	1.514	1.485	1.473	1.417	1.406	1.393	1.467	4.58
8)P bis(2-Chloroethyl	1.626	1.563	1.493	1.530	1.467	1.487	1.478	1.520	3.78
9)S Phenol-d5	1.995	1.895	1.789	1.766	1.694	1.669	1.615	1.775	7.51
10)P Phenol	2.193	2.116	2.026	1.985	1.931	1.879	1.687	1.974	8.37
11)P 2-Chlorophenol	1.738	1.676	1.583	1.617	1.551	1.581	1.592	1.620	4.02
12) 1,3-Dichlorobenze	1.772	1.795	1.671	1.633	1.612	1.614	1.601	1.671	4.80
13) 1,4-Dichlorobenze	1.835	1.765	1.688	1.659	1.619	1.597	1.557	1.674	5.83
14) 1,2-Dichlorobenze	1.674	1.694	1.615	1.568	1.516	1.501	1.447	1.574	5.85
15) Benzyl alcohol	1.149	1.158	1.113	1.104	1.047	1.068	1.046	1.098	4.18
16)P bis(2-chloroisopr	2.229	2.155	1.977	1.888	1.746	1.688	1.558	1.892	13.04
17)P 2-Methylphenol	1.588	1.537	1.479	1.451	1.371	1.329	1.296	1.436	7.57
18)P Acetophenone	2.260	2.218	2.177	2.151	2.083	2.082	2.097	2.153	3.26
19)P Hexachloroethane	0.706	0.677	0.665	0.684	0.641	0.636	0.614	0.660	4.81
20)P N-Nitroso-di-n-pr	1.043	1.039	0.960	0.949	0.908	0.897	0.863	0.951	7.28
21)P 3&4-Methylphenol	1.646	1.630	1.527	1.492	1.428	1.403	1.366	1.499	7.28
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.430	0.412	0.405	0.388	0.382	0.381	0.376	0.396	5.02
24)P Nitrobenzene	0.423	0.406	0.391	0.375	0.369	0.366	0.358	0.384	6.08
25)P Isophorone	0.765	0.744	0.717	0.681	0.684	0.681	0.685	0.708	4.89
26)P 2-Nitrophenol	0.230	0.220	0.219	0.212	0.212	0.212	0.209	0.216	3.37
27)P 2,4-Dimethylpheno	0.438	0.426	0.407	0.389	0.387	0.376	0.368	0.399	6.49
28)P bis(2-Chloroethox	0.471	0.446	0.436	0.421	0.408	0.411	0.399	0.427	5.89
29) Benzoic Acid	0.263	0.310	0.351	0.365	0.367	0.329		0.331	12.09
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9955									
Response Ratio = 0.00000 + 0.39285 *A + -0.02856 *A^2									
30)P 2,4-Dichloropheno	0.321	0.311	0.302	0.291	0.284	0.273	0.270	0.293	6.53
31) 1,2,4-Trichlorobe	0.374	0.351	0.339	0.325	0.316	0.317	0.304	0.332	7.22
32)P Naphthalene	1.235	1.174	1.140	1.080	1.059	1.054	1.012	1.108	7.08
33)P 4-Chloroaniline	0.502	0.484	0.474	0.448	0.433	0.429	0.406	0.454	7.54
34) 2,6-Dichloropheno	0.312	0.301	0.287	0.275	0.267	0.260	0.248	0.278	8.13
35)P Hexachlorobutadie	0.191	0.179	0.171	0.165	0.158	0.160	0.152	0.168	7.94
36)P Caprolactam	0.132	0.129	0.134	0.129	0.128	0.131	0.131	0.131	1.67
37)P 4-Chloro-3-methyl	0.351	0.357	0.344	0.330	0.332	0.328	0.327	0.338	3.62
38)P 2-Methylnaphthale	0.793	0.753	0.728	0.700	0.680	0.680	0.661	0.714	6.59
39) 1-Methylnaphthale	0.727	0.692	0.669	0.647	0.628	0.627	0.607	0.657	6.43

Initial Calibration Summary

Job Number: F97561A **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

40)P 1,2,4,5-Tetrachlo	0.318	0.315	0.298	0.283	0.278	0.280	0.271	0.292	6.41
41) I Acenaphthene-d10	ISTD								
42)P Hexachlorocyclope	0.349	0.367	0.378	0.387	0.389	0.396	0.387	0.379	4.21
43)P 2,4,6-Trichloroph	0.466	0.448	0.441	0.434	0.420	0.425	0.423	0.437	3.75
44)P 2,4,5-Trichloroph	0.453	0.456	0.441	0.443	0.437	0.440	0.433	0.443	1.87
45)S 2-Fluorobiphenyl	1.526	1.462	1.416	1.389	1.367	1.346	1.303	1.401	5.33
46)P 1,1'-Biphenyl	1.757	1.669	1.607	1.506	1.455	1.432	1.347	1.539	9.40
47)P 2-Chloronaphthale	1.328	1.246	1.225	1.177	1.125	1.110	1.075	1.184	7.49
48)P 2-Nitroaniline	0.399	0.394	0.391	0.398	0.399	0.405	0.403	0.398	1.14
49) p-Dinitrobenzene	0.239	0.234	0.252	0.262	0.262	0.264	0.267	0.254	5.08
50)P Acenaphthylene	2.222	2.079	2.017	2.046	2.024	1.992	1.944	2.046	4.32
51)P Dimethylphthalate	1.506	1.444	1.422	1.392	1.346	1.369	1.305	1.398	4.77
52) m-Dinitrobenzene	0.247	0.256	0.259	0.261	0.263	0.260	0.259	0.258	2.07
53)P 2,6-Dinitrotoluen	0.329	0.328	0.325	0.327	0.326	0.333	0.336	0.329	1.26
54) o-Dinitrobenzene	0.199	0.194	0.193	0.197	0.188	0.193	0.193	0.194	1.83
55)P Acenaphthene	1.331	1.271	1.250	1.238	1.202	1.209	1.181	1.240	4.08
56)P 3-Nitroaniline	0.404	0.408	0.401	0.409	0.404	0.410	0.423	0.408	1.73
57)P 2,4-Dinitrophenol			0.163	0.208	0.215	0.231	0.241	0.211	14.29
58)P Dibenzofuran	1.783	1.733	1.671	1.661	1.626	1.627	1.598	1.671	3.94
59)P 2,4-Dinitrotoluen	0.424	0.423	0.436	0.436	0.435	0.440	0.447	0.434	2.01
60)P 4-Nitrophenol	0.207	0.220	0.219	0.225	0.225	0.233	0.232	0.223	3.94
61)P 2,3,4,6-Tetrachlo	0.349	0.330	0.334	0.329	0.324	0.329	0.325	0.332	2.56
62)P Fluorene	1.456	1.385	1.366	1.360	1.336	1.322	1.313	1.363	3.55
63)P 4-Chlorophenyl-ph	0.695	0.662	0.636	0.622	0.610	0.598	0.581	0.629	6.22
64)P Diethylphthalate	1.508	1.450	1.392	1.389	1.352	1.333	1.293	1.388	5.21
65)P 4-Nitroaniline	0.396	0.377	0.390	0.397	0.395	0.404	0.413	0.396	2.83
66) I Phenanthrene-d10	ISTD								
67)P 4,6-Dinitro-2-met	0.093	0.124	0.143	0.157	0.158	0.161	0.166	0.143	18.39
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.14173 *A + 0.01005 *A^2									
68)P n-Nitrosodiphenyl	0.596	0.610	0.567	0.558	0.549	0.546	0.537	0.566	4.82
69) 1,2-Diphenylhydra	0.917	0.861	0.920	0.911	0.886	0.881	0.855	0.890	3.00
70)S 2,4,6-Tribromophe	0.116	0.114	0.110	0.107	0.107	0.104	0.103	0.109	4.37
71)P 4-Bromophenyl-phe	0.228	0.225	0.214	0.211	0.205	0.205	0.203	0.213	4.77
72)P Hexachlorobenzene	0.255	0.241	0.233	0.230	0.226	0.224	0.222	0.233	5.06
73) Simazine	0.104	0.102	0.100	0.100	0.099	0.101	0.100	0.101	1.71
74)P Atrazine	0.216	0.227	0.213	0.211	0.208	0.208	0.204	0.213	3.58
75)P Pentachlorophenol	0.140	0.150	0.161	0.159	0.160	0.164	0.162	0.157	5.42
76)P Phenanthrene	1.265	1.244	1.170	1.141	1.122	1.112	1.095	1.164	5.70
77)P Anthracene	1.300	1.243	1.193	1.160	1.155	1.147	1.126	1.189	5.21
78)P Carbazole	1.127	1.074	1.029	1.009	0.991	0.990	0.977	1.028	5.29
79)P Di-n-butylphthala	1.293	1.312	1.272	1.248	1.235	1.243	1.229	1.262	2.50
80)P Fluoranthene	1.115	1.103	1.055	1.045	1.030	1.039	1.040	1.061	3.17
81) I Chrysene-d12	ISTD								
82) Benzidine	0.750	0.732	0.747	0.724	0.681	0.628	0.570	0.690	9.90
83)P Pyrene	1.463	1.420	1.358	1.349	1.324	1.320	1.324	1.365	4.04
84)S Terphenyl-d14	0.993	0.951	0.959	0.938	0.932	0.933	0.921	0.947	2.53
85)P Butylbenzylphthal	0.607	0.615	0.638	0.640	0.644	0.642	0.647	0.633	2.47
86)P 3,3'-Dichlorobenz	0.437	0.408	0.432	0.444	0.441	0.431	0.416	0.430	3.13
87)P Benzo[a]anthracen	1.160	1.124	1.109	1.133	1.129	1.122	1.123	1.129	1.39
88)P Chrysene	1.104	1.066	1.053	1.060	1.037	1.042	1.030	1.056	2.32
89)P bis(2-Ethylhexyl)	0.785	0.800	0.812	0.828	0.829	0.832	0.835	0.817	2.32
90) I Perylene-d12	ISTD								
91)P Di-n-octylphthala	1.217	1.309	1.419	1.483	1.457	1.514	1.508	1.415	7.90
92)P Benzo[b]fluoranth	1.112	1.125	1.118	1.116	1.145	1.159	1.156	1.133	1.76

Initial Calibration Summary

Job Number: F97561A **Sample:** ST227-ICC227
Account: CSXT CSX Transportation **Lab FileID:** T004469.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

93)P Benzo[k]fluoranth	1.226	1.267	1.203	1.196	1.132	1.138	1.136	1.185	4.40
94)P Benzo[a]pyrene	1.047	1.100	1.100	1.091	1.090	1.121	1.117	1.095	2.22
95)P Indeno[1,2,3-cd]p	0.769	0.825	0.854	0.893	0.903	0.937	0.948	0.876	7.30
96)P Dibenz[a,h]anthra	0.840	0.885	0.923	0.951	0.927	0.958	0.955	0.920	4.73
97)P Benzo[g,h,i]peryl	1.015	1.013	1.046	1.029	1.007	1.031	1.022	1.023	1.29

(#) = Out of Range

8270d.m Wed Oct 10 09:49:01 2012

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-ICV227
Lab FileID: T004471.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\T004471.D Vial: 12
Acq On : 9 Oct 2012 7:32 pm Operator: fouads
Sample : icv227-50 Inst : MSBNA06
Misc : op43453,st227,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:02:20 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	4.15
2		1,4-Dioxane	50.000	45.072	9.9	88	0.01	1.58
3		N-nitrosodimethylamine	50.000	45.577	8.8	90	0.00	1.91
4		Pyridine		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
5	P	Benzaldehyde	50.000	51.526	-3.1	98	0.00	3.83
		---------- Amount	Calc.	%Drift	----------			
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	45.363	9.3	88	0.00	4.00
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	44.520	11.0	87	-0.01	3.96
11	P	2-Chlorophenol	50.000	46.583	6.8	92	0.00	4.02
12		1,3-Dichlorobenzene	50.000	46.283	7.4	93	0.00	4.12
13		1,4-Dichlorobenzene	50.000	47.029	5.9	93	0.00	4.16
14		1,2-Dichlorobenzene	50.000	47.976	4.0	94	0.00	4.30
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	44.716	10.6	88	0.00	4.40
17	P	2-Methylphenol	50.000	45.774	8.5	89	0.00	4.39
18	P	Acetophenone	50.000	47.306	5.4	93	0.00	4.47
19	P	Hexachloroethane	50.000	46.897	6.2	89	0.00	4.52
20	P	N-Nitroso-di-n-propylamin	50.000	43.385	13.2	85	-0.01	4.49
21	P	3&4-Methylphenol	100.000	86.232	13.8	88	0.00	4.50
22	I	Naphthalene-d8	40.000	40.000	0.0	94	0.00	5.11
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	47.036	5.9	90	0.00	4.59
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol	50.000	46.490	7.0	89	0.00	4.83
27	P	2,4-Dimethylphenol	50.000	41.344	17.3	80	0.00	4.88
28	P	bis(2-Chloroethoxy)methan	50.000	45.581	8.8	87	0.00	4.95
29		Benzoic Acid	100.000	89.408	10.6	0	0.00	5.03
30	P	2,4-Dichlorophenol	50.000	44.966	10.1	85	0.00	5.02
31		1,2,4-Trichlorobenzene	50.000	46.969	6.1	90	0.00	5.09
32	P	Naphthalene	50.000	47.338	5.3	91	0.00	5.14
33	P	4-Chloroaniline		----------NA----------				
34		2,6-Dichlorophenol	50.000	47.901	4.2	91	0.00	5.22
35	P	Hexachlorobutadiene	50.000	47.623	4.8	91	0.00	5.31
36	P	Caprolactam	50.000	45.693	8.6	87	-0.03	5.52
37	P	4-Chloro-3-methylphenol	50.000	45.449	9.1	88	0.00	5.69
38	P	2-Methylnaphthalene		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-ICV227
Lab FileID: T004471.D

39		1-Methylnaphthalene	50.000	46.655	6.7	89	0.00	5.91
40	P	1,2,4,5-Tetrachlorobenzen	50.000	44.909	10.2	87	0.00	6.02
41	I	Acenaphthene-d10	40.000	40.000	0.0	95	0.00	7.08
42	P	Hexachlorocyclopentadiene	50.000	48.968	2.1	91	0.00	6.05
43	P	2,4,6-Trichlorophenol	50.000	45.022	10.0	86	0.00	6.15
44	P	2,4,5-Trichlorophenol	50.000	46.350	7.3	88	0.00	6.19
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	45.695	8.6	89	0.00	6.34
47	P	2-Chloronaphthalene	50.000	46.618	6.8	89	0.00	6.33
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene	50.000	45.931	8.1	87	0.00	6.87
51	P	Dimethylphthalate	50.000	44.761	10.5	86	-0.01	6.84
52		m-Dinitrobenzene		----------NA----------				
53	P	2,6-Dinitrotoluene	50.000	43.054	13.9	82	-0.01	6.91
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene	50.000	46.433	7.1	89	-0.01	7.12
56	P	3-Nitroaniline		----------NA----------				
57	P	2,4-Dinitrophenol	100.000	83.688	16.3	66	-0.01	7.22
58	P	Dibenzofuran		----------NA----------				
59	P	2,4-Dinitrotoluene	50.000	44.527	10.9	84	-0.01	7.46
60	P	4-Nitrophenol	100.000	90.213	9.8	78	-0.01	7.40
61	P	2,3,4,6-Tetrachlorophenol	50.000	43.979	12.0	84	0.00	7.63
62	P	Fluorene	50.000	45.845	8.3	87	-0.01	7.87
63	P	4-Chlorophenyl-phenylethe	50.000	45.651	8.7	88	0.00	7.92
64	P	Diethylphthalate	50.000	45.052	9.9	86	-0.01	7.90
65	P	4-Nitroaniline		----------NA----------				
66	I	Phenanthrene-d10	40.000	40.000	0.0	89	0.00	9.37
		----------	Amount	Calc.	%Drift	----------		
67	P	4,6-Dinitro-2-methylpheno	100.000	94.261	5.7	78	-0.02	8.07
		----------	Amount	Calc.	%Drift	----------		
68	P	n-Nitrosodiphenylamine	50.000	47.506	7.0	71	-0.02	8.13
69		1,2-Diphenylhydrazine	50.000	48.146	3.7	84	0.00	8.16
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether	50.000	47.886	4.2	86	0.00	8.69
72	P	Hexachlorobenzene	50.000	46.376	7.2	83	0.00	8.88
73		Simazine		----------NA----------				
74	P	Atrazine	50.000	46.947	6.1	84	-0.02	9.15
75	P	Pentachlorophenol	100.000	94.236	5.8	75	0.00	9.21
76	P	Phenanthrene	50.000	48.453	3.1	88	0.00	9.41
77	P	Anthracene	50.000	47.496	5.0	86	-0.01	9.48
78	P	Carbazole		----------NA----------				
79	P	Di-n-butylphthalate	50.000	45.664	8.7	82	0.00	10.75
80	P	Fluoranthene	50.000	45.810	8.4	83	0.00	11.51
81	I	Chrysene-d12	40.000	40.000	0.0	87	-0.01	14.17
82		Benzidine		----------NA----------				
83	P	Pyrene	50.000	50.136	-0.3	89	-0.01	11.89
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate	50.000	47.469	5.1	82	0.00	13.48
86	P	3,3'-Dichlorobenzidine		----------NA----------				
87	P	Benzo[a]anthracene	50.000	47.691	4.6	83	-0.01	14.14
88	P	Chrysene	50.000	48.283	3.4	84	-0.02	14.21
89	P	bis(2-Ethylhexyl)phthalat	50.000	46.690	6.6	81	0.00	14.71
90	I	Perylene-d12	40.000	40.000	0.0	85	0.00	16.63

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-ICV227
Lab FileID: T004471.D

91	P	Di-n-octylphthalate	50.000	49.044	1.9	79	0.00	15.82
92	P	Benzo[b]fluoranthene	50.000	50.799	-1.6	87	-0.02	16.03
93	P	Benzo[k]fluoranthene	50.000	48.443	3.1	81	-0.02	16.08
94	P	Benzo[a]pyrene	50.000	46.659	6.7	79	-0.02	16.53
95	P	Indeno[1,2,3-cd]pyrene	50.000	50.158	-0.3	83	-0.01	18.19
96	P	Dibenz[a,h]anthracene	50.000	50.946	-1.9	83	-0.02	18.25
97	P	Benzo[g,h,i]perylene	50.000	49.586	0.8	83	-0.02	18.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Wed Oct 10 09:36:58 2012

6.7.6

6

Initial Calibration Verification

Job Number: F97561A **Sample:** ST227-ICV227
Account: CSXT CSX Transportation **Lab FileID:** T004472.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\T004472.D Vial: 13
Acq On : 9 Oct 2012 8:00 pm Operator: fouads
Sample : icv227-50 Inst : MSBNA06
Misc : op43453,st227,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Oct 10 09:02:20 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	112	0.00	4.15
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	50.453	-0.9	108	0.00	1.89
		---------- Amount	Calc.	%Drift	----------			
5	P	Benzaldehyde	25.000	26.182	-4.7	105	0.00	3.83
		---------- Amount	Calc.	%Drift	----------			
6		Aniline	50.000	43.828	12.3	100	0.00	3.94
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	49.368	1.3	110	0.00	4.28
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	110	0.00	5.11
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	46.346	7.3	106	0.00	4.76
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	46.398	7.2	103	0.00	5.21
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-ICV227
Lab FileID: T004472.D

38	P	2-Methylnaphthalene	50.000	48.248	3.5	108	0.00	5.79
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	110	0.00	7.08
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	49.349	1.3	109	0.00	6.52
49		p-Dinitrobenzene		----------NA----------				
50	P	Acenaphthylene		----------NA----------				
51	P	Dimethylphthalate		----------NA----------				
52		m-Dinitrobenzene	50.000	48.552	2.9	106	-0.01	6.82
53	P	2,6-Dinitrotoluene		----------NA----------				
54		o-Dinitrobenzene		----------NA----------				
55	P	Acenaphthene		----------NA----------				
56	P	3-Nitroaniline	50.000	47.202	5.6	104	-0.01	7.09
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	Dibenzofuran	50.000	50.787	-1.6	112	-0.01	7.35
59	P	2,4-Dinitrotoluene		----------NA----------				
60	P	4-Nitrophenol		----------NA----------				
61	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
62	P	Fluorene		----------NA----------				
63	P	4-Chlorophenyl-phenylethe		----------NA----------				
64	P	Diethylphthalate		----------NA----------				
65	P	4-Nitroaniline	50.000	50.854	-1.7	112	-0.03	8.00
66	I	Phenanthrene-d10	40.000	40.000	0.0	108	0.00	9.37
		---------- Amount	Calc.	%Drift	----------			
67	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
68	P	n-Nitrosodiphenylamine		----------NA----------				
69		1,2-Diphenylhydrazine		----------NA----------				
70	S	2,4,6-Tribromophenol		----------NA----------				
71	P	4-Bromophenyl-phenylether		----------NA----------				
72	P	Hexachlorobenzene		----------NA----------				
73		Simazine	50.000	66.675	-33.3#	146	-0.02	9.07
74	P	Atrazine		----------NA----------				
75	P	Pentachlorophenol		----------NA----------				
76	P	Phenanthrene		----------NA----------				
77	P	Anthracene		----------NA----------				
78	P	Carbazole	50.000	50.691	-1.4	112	0.00	9.83
79	P	Di-n-butylphthalate		----------NA----------				
80	P	Fluoranthene		----------NA----------				
81	I	Chrysene-d12	40.000	40.000	0.0	110	-0.02	14.16
82		Benzidine	50.000	56.699	-13.4	118	0.00	11.89
83	P	Pyrene		----------NA----------				
84	S	Terphenyl-d14		----------NA----------				
85	P	Butylbenzylphthalate		----------NA----------				
86	P	3,3'-Dichlorobenzidine	50.000	40.871	18.3	87	-0.01	14.26
87	P	Benzo[a]anthracene		----------NA----------				
88	P	Chrysene		----------NA----------				
89	P	bis(2-Ethylhexyl)phthalat		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: ST227-ICV227
Lab FileID: T004472.D

90	I	Perylene-d12	40.000	40.000	0.0	108	0.00	16.63
91	P	Di-n-octylphthalate		----------NA----------				
92	P	Benzo[b]fluoranthene		----------NA----------				
93	P	Benzo[k]fluoranthene		----------NA----------				
94	P	Benzo[a]pyrene		----------NA----------				
95	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
96	P	Dibenz[a,h]anthracene		----------NA----------				
97	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Wed Oct 10 09:42:08 2012

6.7.7

6

Continuing Calibration Summary

Job Number: F97561A **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\101112\T004528.D Vial: 2
Acq On : 11 Oct 2012 11:27 am Operator: fouads
Sample : cc227-50 Inst : MSBNA06
Misc : op43453,st230,30.4,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 11:50:46 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	150	0.00	4.10
2		1,4-Dioxane	0.712	0.732	-2.8	154	-0.04	1.52
3		N-nitrosodimethylamine	0.650	0.660	-1.5	153	-0.04	1.85
4		Pyridine	1.471	1.641	-11.6	159	-0.04	1.83
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	50.000	49.415	1.2	145	0.00	3.78
			AvgRF	CCRF	%Dev			
6		Aniline	2.285	2.316	-1.4	154	0.00	3.89
7	S	2-Fluorophenol	1.467	1.540	-5.0	157	-0.02	3.17
8	P	bis(2-Chloroethyl)ether	1.520	1.569	-3.2	154	0.00	3.95
9	S	Phenol-d5	1.775	1.773	0.1	151	0.00	3.92
10	P	Phenol	1.974	1.812	8.2	137	0.00	3.92
11	P	2-Chlorophenol	1.620	1.679	-3.6	156	0.00	3.97
12		1,3-Dichlorobenzene	1.671	1.712	-2.5	157	0.00	4.07
13		1,4-Dichlorobenzene	1.674	1.698	-1.4	154	0.00	4.11
14		1,2-Dichlorobenzene	1.574	1.588	-0.9	152	0.00	4.25
15		Benzyl alcohol	1.098	1.120	-2.0	152	0.00	4.24
16	P	bis(2-chloroisopropyl)eth	1.892	1.741	8.0	138	0.00	4.35
17	P	2-Methylphenol	1.436	1.444	-0.6	149	0.00	4.34
18	P	Acetophenone	2.153	2.185	-1.5	152	0.00	4.42
19	P	Hexachloroethane	0.660	0.663	-0.5	145	0.00	4.47
20	P	N-Nitroso-di-n-propylamin	0.951	0.918	3.5	145	0.00	4.46
21	P	3&4-Methylphenol	1.499	1.474	1.7	148	0.00	4.45
22	I	Naphthalene-d8	1.000	1.000	0.0	149	0.00	5.06
23	S	Nitrobenzene-d5	0.396	0.398	-0.5	153	0.00	4.52
24	P	Nitrobenzene	0.384	0.383	0.3	152	0.00	4.54
25	P	Isophorone	0.708	0.711	-0.4	155	0.00	4.72
26	P	2-Nitrophenol	0.216	0.226	-4.6	158	0.00	4.78
27	P	2,4-Dimethylphenol	0.399	0.402	-0.8	154	0.00	4.83
28	P	bis(2-Chloroethoxy)methan	0.427	0.428	-0.2	151	0.00	4.90
			Amount	Calc.	%Drift			
29		Benzoic Acid	50.000	46.283	7.4	135	0.01	4.97
			AvgRF	CCRF	%Dev			
30	P	2,4-Dichlorophenol	0.293	0.288	1.7	147	0.00	4.97
31		1,2,4-Trichlorobenzene	0.332	0.336	-1.2	153	0.00	5.03
32	P	Naphthalene	1.108	1.117	-0.8	154	0.00	5.08
33	P	4-Chloroaniline	0.454	0.448	1.3	148	0.00	5.16

Continuing Calibration Summary

Job Number: F97561A **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

34		2,6-Dichlorophenol	0.278	0.277	0.4	150	0.00	5.16
35	P	Hexachlorobutadiene	0.168	0.166	1.2	150	0.00	5.25
36	P	Caprolactam	0.131	0.137	-4.6	158	0.00	5.49
37	P	4-Chloro-3-methylphenol	0.338	0.346	-2.4	156	0.00	5.64
38	P	2-Methylnaphthalene	0.714	0.719	-0.7	153	0.00	5.73
39		1-Methylnaphthalene	0.657	0.658	-0.2	151	0.00	5.84
40	P	1,2,4,5-Tetrachlorobenzen	0.292	0.290	0.7	153	0.00	5.96
41	I	Acenaphthene-d10	1.000	1.000	0.0	151	0.00	7.01
42	P	Hexachlorocyclopentadiene	0.379	0.394	-4.0	154	0.00	5.99
43	P	2,4,6-Trichlorophenol	0.437	0.444	-1.6	154	0.00	6.08
44	P	2,4,5-Trichlorophenol	0.443	0.460	-3.8	157	0.00	6.13
45	S	2-Fluorobiphenyl	1.401	1.405	-0.3	153	0.00	6.18
46	P	1,1'-Biphenyl	1.539	1.498	2.7	150	0.00	6.28
47	P	2-Chloronaphthalene	1.184	1.177	0.6	151	0.00	6.27
48	P	2-Nitroaniline	0.398	0.413	-3.8	157	0.00	6.46
49		p-Dinitrobenzene	0.254	0.272	-7.1	157	0.00	6.61
50	P	Acenaphthylene	2.046	2.075	-1.4	153	0.00	6.80
51	P	Dimethylphthalate	1.398	1.384	1.0	150	0.00	6.78
52		m-Dinitrobenzene	0.258	0.270	-4.7	156	0.00	6.76
53	P	2,6-Dinitrotoluene	0.329	0.344	-4.6	158	0.00	6.85
54		o-Dinitrobenzene	0.194	0.195	-0.5	149	0.00	6.93
55	P	Acenaphthene	1.240	1.249	-0.7	152	0.00	7.06
56	P	3-Nitroaniline	0.408	0.422	-3.4	156	0.00	7.02
57	P	2,4-Dinitrophenol	0.211	0.228	-8.1	166	0.00	7.16
58	P	Dibenzofuran	1.671	1.700	-1.7	154	0.00	7.28
59	P	2,4-Dinitrotoluene	0.434	0.454	-4.6	157	0.00	7.39
60	P	4-Nitrophenol	0.223	0.238	-6.7	160	0.00	7.33
61	P	2,3,4,6-Tetrachlorophenol	0.332	0.341	-2.7	156	0.00	7.55
62	P	Fluorene	1.363	1.400	-2.7	155	0.00	7.79
63	P	4-Chlorophenyl-phenylethe	0.629	0.626	0.5	152	0.00	7.85
64	P	Diethylphthalate	1.388	1.380	0.6	150	0.00	7.84
65	P	4-Nitroaniline	0.396	0.412	-4.0	157	0.00	7.94
66	I	Phenanthrene-d10	1.000	1.000	0.0	147	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
67	P	4,6-Dinitro-2-methylpheno	50.000	53.997	-8.0	157	0.00	8.01
		----------	AvgRF	CCRF	%Dev		----------	
68	P	n-Nitrosodiphenylamine	0.566	0.593	-4.8	156	0.00	8.07
69		1,2-Diphenylhydrazine	0.890	0.945	-6.2	152	0.00	8.09
70	S	2,4,6-Tribromophenol	0.109	0.114	-4.6	157	-0.01	8.21
71	P	4-Bromophenyl-phenylether	0.213	0.222	-4.2	154	0.00	8.62
72	P	Hexachlorobenzene	0.233	0.241	-3.4	154	0.00	8.80
73		Simazine	0.101	0.103	-2.0	152	0.00	9.00
74	P	Atrazine	0.213	0.218	-2.3	152	0.00	9.09
75	P	Pentachlorophenol	0.157	0.171	-8.9	158	0.00	9.14
76	P	Phenanthrene	1.164	1.199	-3.0	154	0.00	9.33
77	P	Anthracene	1.189	1.244	-4.6	157	0.00	9.40
78	P	Carbazole	1.028	1.065	-3.6	155	0.00	9.74
79	P	Di-n-butylphthalate	1.262	1.330	-5.4	156	0.01	10.66
80	P	Fluoranthene	1.061	1.119	-5.5	157	0.00	11.42
81	I	Chrysene-d12	1.000	1.000	0.0	150	0.00	14.08
82		Benzidine	0.690	0.576	16.5	119	-0.01	11.80
83	P	Pyrene	1.365	1.403	-2.8	156	-0.01	11.80
84	S	Terphenyl-d14	0.947	0.966	-2.0	155	0.00	12.28
85	P	Butylbenzylphthalate	0.633	0.675	-6.6	158	0.00	13.39
86	P	3,3'-Dichlorobenzidine	0.430	0.476	-10.7	161	0.00	14.17

Continuing Calibration Summary

Job Number: F97561A **Sample:** ST230-CC227
Account: CSXT CSX Transportation **Lab FileID:** T004528.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

87	P	Benzo[a]anthracene	1.129	1.176	-4.2	156	0.00	14.04
88	P	Chrysene	1.056	1.079	-2.2	153	0.00	14.12
89	P	bis(2-Ethylhexyl)phthalat	0.817	0.864	-5.8	157	0.00	14.62
90	I	Perylene-d12	1.000	1.000	0.0	151	0.00	16.53
91	P	Di-n-octylphthalate	1.415	1.602	-13.2	163	0.00	15.73
92	P	Benzo[b]fluoranthene	1.133	1.192	-5.2	161	0.00	15.94
93	P	Benzo[k]fluoranthene	1.185	1.201	-1.4	151	-0.01	15.98
94	P	Benzo[a]pyrene	1.095	1.165	-6.4	161	-0.01	16.43
95	P	Indeno[1,2,3-cd]pyrene	0.876	1.014	-15.8	171	0.00	18.09
96	P	Dibenz[a,h]anthracene	0.920	1.017	-10.5	161	0.00	18.16
97	P	Benzo[g,h,i]perylene	1.023	1.066	-4.2	156	0.00	18.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T004467.D 8270d.m Fri Oct 12 11:29:19 2012

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9

Initial Calibration Summary

Job Number: F97561A **Sample:** SU1599-ICC1599
Account: CSXT CSX Transportation **Lab FileID:** U033671.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA04

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Sep 19 07:32:56 2012
Response via : Initial Calibration

Calibration Files
5 =U033668.D 10 =U033669.D 25 =U033670.D 50 =U033671.D
60 =U033672.D 75 =U033673.D 100 =U033674.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.424	0.451	0.404	0.452	0.439	0.491	0.437	0.443	6.12
3) N-nitrosodimethyl	0.399	0.524	0.473	0.553	0.532	0.500	0.561	0.506	11.08
4) Pyridine	1.254	1.185	1.275	1.189	1.225	1.274	1.239	1.235	3.01
5)S 2-Fluorophenol	1.388	1.328	1.338	1.352	1.323	1.313	1.341	1.340	1.83
6)P Benzaldehyde	1.007	0.983	0.957	0.863	0.786	0.666	0.497	0.823	22.81
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985									
Response Ratio = 0.00000 + 1.18300 *A + -0.27337 *A^2									
7) Aniline	2.047	1.961	1.949	1.976	1.961	1.946	1.938	1.968	1.86
8)P bis(2-Chloroethyl	1.325	1.291	1.274	1.315	1.294	1.304	1.314	1.302	1.34
9)S Phenol-d5	1.710	1.683	1.669	1.746	1.722	1.721	1.730	1.712	1.57
10)P Phenol	1.766	1.757	1.655	1.704	1.757	1.679	1.870	1.741	4.09
11)P 2-Chlorophenol	1.528	1.437	1.461	1.511	1.484	1.490	1.532	1.492	2.32
12) 1,3-Dichlorobenze	1.664	1.593	1.559	1.667	1.650	1.647	1.674	1.636	2.65
13) 1,4-Dichlorobenze	1.683	1.661	1.633	1.728	1.751	1.755	1.756	1.710	2.94
14) 1,2-Dichlorobenze	1.633	1.554	1.522	1.602	1.596	1.641	1.631	1.597	2.78
15) Benzyl alcohol	0.889	0.905	0.901	0.951	0.943	0.945	0.948	0.926	2.85
16)P 2-Methylphenol	1.317	1.288	1.309	1.355	1.349	1.348	1.337	1.329	1.87
17)P bis(2-chloroisopr	1.485	1.426	1.400	1.505	1.474	1.489	1.490	1.467	2.64
18)P Acetophenone	1.924	1.871	1.914	1.995	1.988	1.963	1.945	1.943	2.26
19)P N-Nitroso-di-n-pr	0.986	0.965	0.968	0.994	1.010	1.004	1.002	0.990	1.78
20)P 3&4-Methylphenol	1.344	1.363	1.379	1.492	1.482	1.494	1.474	1.433	4.70
21)P Hexachloroethane	0.640	0.648	0.646	0.695	0.686	0.693	0.701	0.673	3.97
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.400	0.404	0.398	0.397	0.399	0.399	0.405	0.400	0.76
24)P Nitrobenzene	0.399	0.373	0.382	0.390	0.385	0.391	0.396	0.388	2.27
25)P Isophorone	0.654	0.646	0.640	0.643	0.646	0.646	0.650	0.646	0.69
26)P 2-Nitrophenol	0.205	0.200	0.192	0.207	0.203	0.210	0.216	0.205	3.69
27)P 2,4-Dimethylpheno	0.383	0.369	0.364	0.364	0.366	0.373	0.373	0.370	1.85
28)P bis(2-Chloroethox	0.399	0.379	0.381	0.381	0.387	0.389	0.401	0.388	2.34
29) Benzoic Acid	0.154	0.212	0.240	0.282	0.301	0.326	0.335	0.264	24.89
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9984									
Response Ratio = 0.00000 + 0.23499 *A + 0.04201 *A^2									
30)P 2,4-Dichloropheno	0.303	0.295	0.299	0.302	0.304	0.310	0.320	0.305	2.75
31) 1,2,4-Trichlorobe	0.346	0.328	0.332	0.344	0.343	0.350	0.357	0.343	2.92
32)P Naphthalene	1.059	1.031	1.022	1.068	1.069	1.086	1.110	1.064	2.84
33)P 4-Chloroaniline	0.454	0.436	0.439	0.456	0.459	0.472	0.484	0.457	3.68
34) 2,6-Dichloropheno	0.299	0.295	0.294	0.308	0.310	0.313	0.322	0.306	3.42
35)P Hexachlorobutadie	0.202	0.196	0.199	0.205	0.205	0.208	0.213	0.204	2.74
36)P Caprolactam	0.098	0.087	0.094	0.089	0.087	0.081	0.078	0.088	7.98
37)P 4-Chloro-3-methyl	0.313	0.310	0.305	0.302	0.303	0.303	0.313	0.307	1.61
38)P 2-Methylnaphthale	0.715	0.678	0.681	0.686	0.701	0.720	0.737	0.703	3.18
39) 1-Methylnaphthale	0.641	0.633	0.614	0.638	0.646	0.655	0.677	0.644	3.04

Initial Calibration Summary

Job Number: F97561A **Sample:** SU1599-ICC1599
Account: CSXT CSX Transportation **Lab FileID:** U033671.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

40)P	1,2,4,5-Tetrachlo	0.335	0.336	0.328	0.341	0.346	0.351	0.361	0.342	3.28
41) I	Acenaphthene-d10	----------ISTD----------								
42)P	Hexachlorocyclope	0.279	0.313	0.342	0.396	0.404	0.410	0.426	0.367	15.26
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
	Response Ratio = 0.00000 + 0.35144 *A + 0.03054 *A^2									
43)P	2,4,6-Trichloroph	0.398	0.393	0.383	0.405	0.408	0.407	0.425	0.403	3.32
44)P	2,4,5-Trichloroph	0.424	0.405	0.394	0.420	0.433	0.424	0.448	0.421	4.21
45)S	2-Fluorobiphenyl	1.392	1.366	1.323	1.408	1.430	1.429	1.476	1.404	3.52
46)P	1,1'-Biphenyl	1.514	1.538	1.546	1.642	1.670	1.675	1.771	1.622	5.75
47)P	2-Chloronaphthale	1.220	1.211	1.192	1.264	1.294	1.276	1.336	1.256	4.09
48)P	2-Nitroaniline	0.357	0.342	0.339	0.354	0.355	0.348	0.359	0.351	2.27
49)	p-Dinitrobenzene	0.243	0.243	0.237	0.250	0.253	0.249	0.260	0.248	3.08
50)P	Dimethylphthalate	1.322	1.328	1.253	1.275	1.310	1.283	1.344	1.302	2.49
51)	m-Dinitrobenzene	0.225	0.213	0.207	0.226	0.233	0.221	0.245	0.224	5.52
52)P	2,6-Dinitrotoluen	0.299	0.303	0.302	0.314	0.319	0.323	0.337	0.314	4.34
53)P	Acenaphthylene	1.916	1.852	1.827	1.927	1.974	1.950	2.059	1.929	4.02
54)	o-Dinitrobenzene	0.163	0.165	0.161	0.161	0.166	0.165	0.169	0.164	1.77
55)P	3-Nitroaniline	0.349	0.340	0.336	0.340	0.355	0.350	0.380	0.350	4.20
56)P	Acenaphthene	1.236	1.237	1.171	1.236	1.256	1.253	1.309	1.242	3.28
57)P	2,4-Dinitrophenol	0.084	0.138	0.174	0.200	0.212	0.215	0.228	0.179	28.95
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
	Response Ratio = 0.00000 + 0.16876 *A + 0.02443 *A^2									
58)P	4-Nitrophenol	0.164	0.163	0.164	0.172	0.186	0.175	0.189	0.173	6.09
59)P	Dibenzofuran	1.628	1.588	1.546	1.604	1.651	1.622	1.706	1.621	3.10
60)P	2,4-Dinitrotoluen	0.375	0.397	0.383	0.395	0.405	0.403	0.427	0.398	4.25
61)	2,3,5,6-Tetrachlo	0.305	0.315	0.322	0.342	0.345	0.345	0.366	0.334	6.35
62)P	2,3,4,6-Tetrachlo	0.318	0.328	0.311	0.340	0.343	0.347	0.359	0.335	5.09
63)P	Diethylphthalate	1.279	1.273	1.229	1.289	1.308	1.313	1.383	1.296	3.63
64)P	Fluorene	1.361	1.357	1.300	1.364	1.399	1.396	1.473	1.379	3.84
65)P	4-Chlorophenyl-ph	0.665	0.638	0.636	0.652	0.671	0.657	0.698	0.660	3.23
66)P	4-Nitroaniline	0.302	0.298	0.298	0.304	0.315	0.311	0.328	0.308	3.53
67) I	Phenanthrene-d10	----------ISTD----------								
68)P	4,6-Dinitro-2-met	0.115	0.125	0.144	0.155	0.162	0.162	0.168	0.147	13.80
69)P	n-Nitrosodiphenyl	0.564	0.541	0.535	0.556	0.567	0.567	0.586	0.559	3.07
70)	1,2-Diphenylhydra	0.808	0.772	0.825	0.854	0.868	0.870	0.882	0.840	4.74
71)S	2,4,6-Tribromophe	0.082	0.078	0.076	0.082	0.085	0.085	0.087	0.082	4.92
72)P	4-Bromophenyl-phe	0.207	0.203	0.192	0.206	0.208	0.209	0.213	0.206	3.14
73)P	Hexachlorobenzene	0.196	0.196	0.189	0.194	0.199	0.200	0.204	0.197	2.44
74)	Simazine	0.102	0.107	0.103	0.118	0.112	0.085	0.065	0.099	18.37
75)P	Atrazine	0.216	0.221	0.229	0.242	0.249	0.250	0.251	0.237	6.19
76)P	Pentachlorophenol	0.099	0.112	0.120	0.131	0.133	0.138	0.143	0.125	12.41
77)P	Phenanthrene	1.109	1.090	1.058	1.069	1.087	1.094	1.121	1.090	1.98
78)P	Anthracene	1.119	1.092	1.078	1.108	1.133	1.144	1.174	1.121	2.90
79)P	Carbazole	1.009	0.962	0.973	0.988	0.995	0.994	1.012	0.990	1.82
80)P	Di-n-butylphthala	1.218	1.173	1.175	1.180	1.204	1.200	1.220	1.196	1.66
81)P	Fluoranthene	1.108	1.085	1.100	1.124	1.136	1.145	1.175	1.125	2.68
82) I	Chrysene-d12	----------ISTD----------								
83)	Benzidine	0.455	0.498	0.553	0.600	0.579	0.530	0.454	0.524	10.98
84)P	Pyrene	1.277	1.240	1.193	1.222	1.228	1.227	1.251	1.234	2.11
85)S	Terphenyl-d14	0.817	0.797	0.780	0.802	0.793	0.809	0.817	0.802	1.68
86)P	Butylbenzylphthal	0.525	0.514	0.507	0.517	0.520	0.517	0.523	0.518	1.15
87)P	3,3'-Dichlorobenz	0.380	0.381	0.377	0.389	0.392	0.388	0.382	0.384	1.44
88)P	Benzo[a]anthracen	1.124	1.087	1.056	1.086	1.074	1.078	1.094	1.085	1.92
89)P	Chrysene	1.059	1.026	0.963	1.016	1.026	1.031	1.058	1.026	3.12
90)P	bis(2-Ethylhexyl)	0.700	0.705	0.697	0.716	0.708	0.717	0.728	0.710	1.55

Initial Calibration Summary

Job Number: F97561A **Sample:** SU1599-ICC1599
Account: CSXT CSX Transportation **Lab FileID:** U033671.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

91) I	Perylene-d12	----------	ISTD	----------					
92)P	Di-n-octylphthala	1.500	1.486	1.491	1.488	1.470	1.476	1.516	1.490	1.01
93)P	Benzo[b]fluoranth	1.224	1.191	1.218	1.198	1.240	1.328	1.457	1.265	7.60
94)P	Benzo[k]fluoranth	1.273	1.212	1.174	1.148	1.197	1.127	0.929	1.151	9.46
95)P	Benzo[a]pyrene	1.189	1.163	1.144	1.179	1.196	1.190	1.227	1.184	2.21
96)P	Indeno[1,2,3-cd]p	0.975	0.926	0.934	0.980	0.999	1.008	1.230	1.007	10.19
97)P	Dibenz[a,h]anthra	0.934	0.928	0.941	0.973	1.030	1.026	1.029	0.980	4.81
98)P	Benzo[g,h,i]peryl	1.067	1.009	1.004	1.044	1.051	1.047	1.040	1.037	2.19

(#) = Out of Range

8270d.m Wed Sep 19 09:59:31 2012

6.7.9

6

Initial Calibration Verification

Job Number: F97561A **Sample:** SU1599-ICV1599
Account: CSXT CSX Transportation **Lab FileID:** U033675.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\091812\U033675.D Vial: 9
Acq On : 18 Sep 2012 6:16 pm Operator: nancyf
Sample : icv1599-50 Inst : MSBNA04
Misc : op43488,su1599,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Sep 19 07:32:56 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	104	0.00	3.91
2		1,4-Dioxane	50.000	59.482	-19.0	121	0.05	1.35
3		N-nitrosodimethylamine	50.000	55.203	-10.4	105	0.03	1.60
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift			
6	P	Benzaldehyde	50.000	56.675	-13.3	109	0.00	3.59
		----------	Amount	Calc.	%Drift			
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	47.822	4.4	98	0.00	3.75
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	46.510	7.0	99	0.00	3.72
11	P	2-Chlorophenol	50.000	48.463	3.1	99	0.00	3.76
12		1,3-Dichlorobenzene	50.000	50.512	-1.0	103	0.00	3.86
13		1,4-Dichlorobenzene	50.000	50.437	-0.9	104	0.00	3.93
14		1,2-Dichlorobenzene	50.000	50.186	-0.4	104	0.00	4.03
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	46.293	7.4	94	0.00	4.15
17	P	bis(2-chloroisopropyl)eth	50.000	47.575	4.8	96	0.00	4.14
18	P	Acetophenone	50.000	48.444	3.1	98	0.00	4.23
19	P	N-Nitroso-di-n-propylamin	50.000	47.972	4.1	99	0.00	4.25
20	P	3&4-Methylphenol	100.000	97.061	2.9	96	0.00	4.27
21	P	Hexachloroethane	50.000	52.316	-4.6	105	0.00	4.27
22	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00	4.85
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.371	3.3	97	0.00	4.34
25	P	Isophorone	50.000	40.726	18.5	82	0.00	4.53
26	P	2-Nitrophenol	50.000	50.606	-1.2	101	0.00	4.57
27	P	2,4-Dimethylphenol	50.000	43.087	13.8	88	0.00	4.64
28	P	bis(2-Chloroethoxy)methan	50.000	47.631	4.7	97	0.00	4.70
		----------	Amount	Calc.	%Drift			
29		Benzoic Acid	100.000	79.556	20.4#	78	0.02	4.85
		----------	Amount	Calc.	%Drift			
30	P	2,4-Dichlorophenol	50.000	47.967	4.1	97	0.00	4.77
31		1,2,4-Trichlorobenzene	50.000	49.511	1.0	99	0.00	4.81
32	P	Naphthalene	50.000	50.098	-0.2	100	0.00	4.87
33	P	4-Chloroaniline		----------NA----------				

Initial Calibration Verification

Job Number: F97561A **Sample:** SU1599-ICV1599
Account: CSXT CSX Transportation **Lab FileID:** U033675.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

34		2,6-Dichlorophenol	50.000	46.677	6.6	93	0.00	4.93
35	P	Hexachlorobutadiene	50.000	50.252	-0.5	100	0.00	4.98
36	P	Caprolactam	50.000	40.324	19.4	80	-0.01	5.31
37	P	4-Chloro-3-methylphenol	50.000	46.725	6.5	95	0.00	5.41
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene	50.000	48.576	2.8	98	0.00	5.59
40	P	1,2,4,5-Tetrachlorobenzen	50.000	47.173	5.7	95	0.00	5.66
41	I	Acenaphthene-d10	40.000	40.000	0.0	96	0.00	6.70
		---------- Amount	Calc.	%Drift	----------			
42	P	Hexachlorocyclopentadiene	50.000	54.525	-9.0	103	0.00	5.64
		---------- Amount	Calc.	%Drift	----------			
43	P	2,4,6-Trichlorophenol	50.000	50.129	-0.3	95	0.00	5.81
44	P	2,4,5-Trichlorophenol	50.000	49.266	1.5	94	0.00	5.86
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	50.563	-1.1	95	0.00	6.01
47	P	2-Chloronaphthalene	50.000	49.945	0.1	95	0.00	6.01
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	48.234	3.5	94	-0.02	6.45
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	48.129	3.7	92	-0.01	6.51
53	P	Acenaphthylene	50.000	50.238	-0.5	96	0.00	6.51
54		o-Dinitrobenzene		----------NA----------				
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	49.846	0.3	96	-0.01	6.75
		---------- Amount	Calc.	%Drift	----------			
57	P	2,4-Dinitrophenol	100.000	87.686	12.3	83	-0.01	6.88
		---------- Amount	Calc.	%Drift	----------			
58	P	4-Nitrophenol	100.000	94.752	5.2	84	0.00	7.09
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	46.191	7.6	89	-0.01	7.07
61		2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol	50.000	45.708	8.6	86	0.00	7.21
63	P	Diethylphthalate	50.000	46.987	6.0	90	0.00	7.49
64	P	Fluorene	50.000	47.108	5.8	91	0.00	7.50
65	P	4-Chlorophenyl-phenylethe	50.000	48.588	2.8	94	0.00	7.56
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	91	0.00	9.00
68	P	4,6-Dinitro-2-methylpheno	100.000	114.176	-14.2	90	-0.01	7.69
69	P	n-Nitrosodiphenylamine	50.000	47.266	5.5	72	-0.02	7.77
70		1,2-Diphenylhydrazine	50.000	50.495	-1.0	90	0.00	7.80
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether	50.000	50.943	-1.9	93	0.00	8.33
73	P	Hexachlorobenzene	50.000	50.214	-0.4	93	0.00	8.35
74		Simazine		----------NA----------				
75	P	Atrazine	50.000	52.580	-5.2	94	-0.02	8.77
76	P	Pentachlorophenol	100.000	108.834	-8.8	85	0.00	8.74
77	P	Phenanthrene	50.000	49.756	0.5	92	0.00	9.04
78	P	Anthracene	50.000	48.969	2.1	90	0.00	9.13
79	P	Carbazole		----------NA----------				
80	P	Di-n-butylphthalate	50.000	47.998	4.0	89	0.00	10.32
81	P	Fluoranthene	50.000	46.963	6.1	86	0.00	11.14
82	I	Chrysene-d12	40.000	40.000	0.0	84	0.00	13.80

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SU1599-ICV1599
Lab FileID: U033675.D

83		Benzidine		----------NA----------				
84	P	Pyrene	50.000	52.216	-4.4	88	0.00	11.52
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate	50.000	50.755	-1.5	85	0.00	13.06
87	P	3,3'-Dichlorobenzidine		----------NA----------				
88	P	Benzo[a]anthracene	50.000	50.502	-1.0	84	0.00	13.78
89	P	Chrysene	50.000	50.525	-1.0	85	0.00	13.84
90	P	bis(2-Ethylhexyl)phthalat	50.000	50.034	-0.1	83	0.00	14.27
91	I	Perylene-d12	40.000	40.000	0.0	79	-0.01	16.25
92	P	Di-n-octylphthalate	50.000	52.572	-5.1	83	0.00	15.46
93	P	Benzo[b]fluoranthene	50.000	50.354	-0.7	84	-0.02	15.66
94	P	Benzo[k]fluoranthene	50.000	53.956	-7.9	86	-0.01	15.71
95	P	Benzo[a]pyrene	50.000	47.934	4.1	76	-0.01	16.16
96	P	Indeno[1,2,3-cd]pyrene	50.000	49.270	1.5	80	-0.01	17.82
97	P	Dibenz[a,h]anthracene	50.000	50.299	-0.6	80	0.00	17.89
98	P	Benzo[g,h,i]perylene	50.000	50.191	-0.4	79	-0.02	18.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U033671.D 8270d.m Wed Sep 19 07:42:59 2012

6.7.10

6

Initial Calibration Verification

Job Number: F97561A **Sample:** SU1599-ICV1599
Account: CSXT CSX Transportation **Lab FileID:** U033676.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\091812\U033676.D Vial: 10
Acq On : 18 Sep 2012 6:42 pm Operator: nancyf
Sample : icv1599-50 Inst : MSBNA04
Misc : op43488,su1599,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Sep 19 07:32:56 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	88	0.00	3.91
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	54.599	-9.2	99	-0.02	1.56
5	S	2-Fluorophenol		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
6	P	Benzaldehyde	25.000	20.233	19.1	83	0.00	3.58
		---------- Amount	Calc.	%Drift	----------			
7		Aniline	50.000	47.777	4.4	84	0.00	3.68
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	52.097	-4.2	89	0.00	4.04
16	P	2-Methylphenol		----------NA----------				
17	P	bis(2-chloroisopropyl)eth		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	N-Nitroso-di-n-propylamin		----------NA----------				
20	P	3&4-Methylphenol		----------NA----------				
21	P	Hexachloroethane		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	86	0.00	4.85
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	50.070	-0.1	86	-0.01	4.52
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
29		Benzoic Acid		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				

Initial Calibration Verification

Job Number: F97561A **Sample:** SU1599-ICV1599
Account: CSXT CSX Transportation **Lab FileID:** U033676.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

33	P	4-Chloroaniline	50.000	41.367	17.3	71	0.00	4.94
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	53.045	-6.1	93	0.00	5.49
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	91	0.00	6.70
		---------- Amount	Calc.	%Drift	----------			
42	P	Hexachlorocyclopentadiene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	50.805	-1.6	91	0.00	6.17
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene	50.000	48.460	3.1	87	-0.03	6.47
52	P	2,6-Dinitrotoluene		----------NA----------				
53	P	Acenaphthylene		----------NA----------				
54		o-Dinitrobenzene		----------NA----------				
55	P	3-Nitroaniline	50.000	45.194	9.6	84	-0.02	6.72
56	P	Acenaphthene		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
57	P	2,4-Dinitrophenol		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
58	P	4-Nitrophenol		----------NA----------				
59	P	Dibenzofuran	50.000	53.168	-6.3	97	0.00	6.99
60	P	2,4-Dinitrotoluene		----------NA----------				
61		2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	52.694	-5.4	97	-0.05	7.62
67	I	Phenanthrene-d10	40.000	40.000	0.0	95	-0.01	8.99
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
69	P	n-Nitrosodiphenylamine		----------NA----------				
70		1,2-Diphenylhydrazine		----------NA----------				
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether		----------NA----------				
73	P	Hexachlorobenzene		----------NA----------				
74		Simazine	50.000	15.737	68.5#	25	-0.05	8.68
75	P	Atrazine		----------NA----------				
76	P	Pentachlorophenol		----------NA----------				
77	P	Phenanthrene		----------NA----------				
78	P	Anthracene		----------NA----------				
79	P	Carbazole	50.000	51.566	-3.1	98	0.00	9.49
80	P	Di-n-butylphthalate		----------NA----------				
81	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SU1599-ICV1599
Lab FileID: U033676.D

82	I	Chrysene-d12	40.000	40.000	0.0	91	-0.02	13.78
83		Benzidine	50.000	58.167	-16.3	93	0.00	11.54
84	P	Pyrene		----------NA----------				
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate		----------NA----------				
87	P	3,3'-Dichlorobenzidine	50.000	42.099	15.8	76	-0.02	13.88
88	P	Benzo[a]anthracene		----------NA----------				
89	P	Chrysene		----------NA----------				
90	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
91	I	Perylene-d12	40.000	40.000	0.0	90	-0.02	16.25
92	P	Di-n-octylphthalate		----------NA----------				
93	P	Benzo[b]fluoranthene		----------NA----------				
94	P	Benzo[k]fluoranthene		----------NA----------				
95	P	Benzo[a]pyrene		----------NA----------				
96	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
97	P	Dibenz[a,h]anthracene		----------NA----------				
98	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U033671.D 8270d.m Wed Sep 19 07:43:00 2012

6.7.11

6

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1619-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034153.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\100912\U034153.D Vial: 2
Acq On : 9 Oct 2012 10:41 am Operator: nancyf
Sample : cc1599-75 Inst : MSBNA04
Misc : op43856,su1619,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 08 09:16:31 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	141	0.00	3.78
2		1,4-Dioxane	0.443	0.545	-23.0#	157	-0.02	1.17
3		N-nitrosodimethylamine	0.506	0.555	-9.7	157	-0.03	1.40
4		Pyridine	1.235	1.340	-8.5	149	-0.02	1.41
5	S	2-Fluorophenol	1.340	1.337	0.2	144	-0.05	2.78
6	P	Benzaldehyde	0.823	0.784	4.7	166	-0.02	3.46
7		Aniline	1.968	2.060	-4.7	150	0.00	3.55
8	P	bis(2-Chloroethyl)ether	1.302	1.378	-5.8	149	0.00	3.63
9	S	Phenol-d5	1.712	1.785	-4.3	147	0.00	3.61
10	P	Phenol	1.741	1.870	-7.4	157	0.00	3.61
11	P	2-Chlorophenol	1.492	1.490	0.1	141	0.00	3.64
12		1,3-Dichlorobenzene	1.636	1.629	0.4	140	0.00	3.73
13		1,4-Dichlorobenzene	1.710	1.671	2.3	135	0.00	3.79
14		1,2-Dichlorobenzene	1.597	1.573	1.5	136	0.00	3.90
15		Benzyl alcohol	0.926	0.952	-2.8	142	0.02	3.94
16	P	2-Methylphenol	1.329	1.364	-2.6	143	0.02	4.04
17	P	bis(2-chloroisopropyl)eth	1.467	1.564	-6.6	149	0.01	4.02
18	P	Acetophenone	1.943	1.905	2.0	137	0.02	4.11
19	P	N-Nitroso-di-n-propylamin	0.990	1.041	-5.2	147	0.02	4.14
20	P	3&4-Methylphenol	1.433	1.396	2.6	132	0.03	4.16
21	P	Hexachloroethane	0.673	0.650	3.4	132	0.00	4.14
22	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00	4.71
23	S	Nitrobenzene-d5	0.400	0.415	-3.7	141	0.00	4.21
24	P	Nitrobenzene	0.388	0.394	-1.5	137	0.00	4.23
25	P	Isophorone	0.646	0.688	-6.5	145	0.00	4.41
26	P	2-Nitrophenol	0.205	0.219	-6.8	142	0.00	4.45
27	P	2,4-Dimethylphenol	0.370	0.389	-5.1	142	0.02	4.53
28	P	bis(2-Chloroethoxy)methan	0.388	0.429	-10.6	150	0.01	4.58
		----------	Amount	Calc.	%Drift	----------		
29		Benzoic Acid	75.000	56.324	24.9#	92	0.04	4.73
		----------	AvgRF	CCRF	%Dev	----------		
30	P	2,4-Dichlorophenol	0.305	0.322	-5.6	141	0.00	4.64
31		1,2,4-Trichlorobenzene	0.343	0.351	-2.3	136	0.00	4.68
32	P	Naphthalene	1.064	1.116	-4.9	140	0.00	4.73
33	P	4-Chloroaniline	0.457	0.501	-9.6	144	0.00	4.80
34		2,6-Dichlorophenol	0.306	0.331	-8.2	143	0.00	4.80
35	P	Hexachlorobutadiene	0.204	0.196	3.9	128	0.00	4.83
36	P	Caprolactam	0.088	0.078	11.4	130	0.02	5.19
37	P	4-Chloro-3-methylphenol	0.307	0.324	-5.5	145	0.00	5.27

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1619-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034153.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	2-Methylnaphthalene	0.703	0.744	-5.8	140	-0.01	5.32
39		1-Methylnaphthalene	0.644	0.676	-5.0	140	-0.02	5.41
40	P	1,2,4,5-Tetrachlorobenzen	0.342	0.357	-4.4	138	-0.02	5.49
41	I	Acenaphthene-d10	1.000	1.000	0.0	137	-0.01	6.48
		----------	Amount	Calc.	%Drift		----------	
42	P	Hexachlorocyclopentadiene	75.000	71.672	4.4	130	0.00	5.47
		----------	AvgRF	CCRF	%Dev		----------	
43	P	2,4,6-Trichlorophenol	0.403	0.421	-4.5	141	0.00	5.64
44	P	2,4,5-Trichlorophenol	0.421	0.434	-3.1	140	0.00	5.69
45	S	2-Fluorobiphenyl	1.404	1.451	-3.3	139	0.00	5.72
46	P	1,1'-Biphenyl	1.622	1.643	-1.3	134	0.00	5.82
47	P	2-Chloronaphthalene	1.256	1.278	-1.8	137	0.00	5.83
48	P	2-Nitroaniline	0.351	0.377	-7.4	149	0.00	5.99
49		p-Dinitrobenzene	0.248	0.274	-10.5	151	0.00	6.19
50	P	Dimethylphthalate	1.302	1.348	-3.5	144	0.00	6.26
51		m-Dinitrobenzene	0.224	0.246	-9.8	153	0.00	6.30
52	P	2,6-Dinitrotoluene	0.314	0.324	-3.2	138	0.00	6.32
53	P	Acenaphthylene	1.929	2.044	-6.0	144	-0.01	6.30
54		o-Dinitrobenzene	0.164	0.177	-7.9	147	0.00	6.38
55	P	3-Nitroaniline	0.350	0.387	-10.6	151	0.00	6.53
56	P	Acenaphthene	1.242	1.284	-3.4	140	-0.01	6.53
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	75.000	74.651	0.5	136	0.00	6.68
		----------	AvgRF	CCRF	%Dev		----------	
58	P	4-Nitrophenol	0.173	0.165	4.6	129	0.01	6.88
59	P	Dibenzofuran	1.621	1.714	-5.7	145	-0.01	6.77
60	P	2,4-Dinitrotoluene	0.398	0.423	-6.3	144	0.00	6.86
61		2,3,5,6-Tetrachlorophenol	0.334	0.333	0.3	132	0.00	6.93
62	P	2,3,4,6-Tetrachlorophenol	0.335	0.347	-3.6	137	0.00	6.99
63	P	Diethylphthalate	1.296	1.365	-5.3	142	0.00	7.26
64	P	Fluorene	1.379	1.434	-4.0	141	0.00	7.26
65	P	4-Chlorophenyl-phenylethe	0.660	0.679	-2.9	141	0.00	7.32
66	P	4-Nitroaniline	0.308	0.335	-8.8	147	0.00	7.44
67	I	Phenanthrene-d10	1.000	1.000	0.0	136	-0.02	8.72
68	P	4,6-Dinitro-2-methylpheno	0.147	0.164	-11.6	138	0.00	7.47
69	P	n-Nitrosodiphenylamine	0.559	0.603	-7.9	145	-0.02	7.54
70		1,2-Diphenylhydrazine	0.840	0.935	-11.3	146	-0.02	7.56
71	S	2,4,6-Tribromophenol	0.082	0.084	-2.4	135	-0.02	7.64
72	P	4-Bromophenyl-phenylether	0.206	0.217	-5.3	141	-0.02	8.07
73	P	Hexachlorobenzene	0.197	0.205	-4.1	140	-0.02	8.09
74		Simazine	0.099	0.107	-8.1	172	0.00	8.48
75	P	Atrazine	0.237	0.210	11.4	114	0.02	8.54
76	P	Pentachlorophenol	0.125	0.120	4.0	118	0.00	8.48
77	P	Phenanthrene	1.090	1.176	-7.9	146	0.00	8.77
78	P	Anthracene	1.121	1.214	-8.3	145	0.00	8.86
79	P	Carbazole	0.990	1.079	-9.0	148	0.00	9.22
80	P	Di-n-butylphthalate	1.196	1.282	-7.2	146	0.02	10.05
81	P	Fluoranthene	1.125	1.219	-8.4	145	0.03	10.84
82	I	Chrysene-d12	1.000	1.000	0.0	138	0.00	13.50
83		Benzidine	0.524	0.647	-23.5#	169	-0.04	11.26
84	P	Pyrene	1.234	1.277	-3.5	144	-0.05	11.22
85	S	Terphenyl-d14	0.802	0.822	-2.5	141	-0.04	11.70
86	P	Butylbenzylphthalate	0.518	0.540	-4.2	145	-0.01	12.77

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1619-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034153.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

87	P	3,3'-Dichlorobenzidine	0.384	0.402	-4.7	143	0.00	13.59
88	P	Benzo[a]anthracene	1.085	1.120	-3.2	144	0.00	13.48
89	P	Chrysene	1.026	1.038	-1.2	139	0.00	13.55
90	P	bis(2-Ethylhexyl)phthalat	0.710	0.734	-3.4	142	0.01	13.98
91	I	Perylene-d12	1.000	1.000	0.0	137	0.00	15.94
92	P	Di-n-octylphthalate	1.490	1.537	-3.2	143	0.00	15.16
93	P	Benzo[b]fluoranthene	1.265	1.320	-4.3	136	-0.02	15.35
94	P	Benzo[k]fluoranthene	1.151	1.163	-1.0	141	0.00	15.41
95	P	Benzo[a]pyrene	1.184	1.208	-2.0	139	0.00	15.85
96	P	Indeno[1,2,3-cd]pyrene	1.007	1.002	0.5	136	0.02	17.51
97	P	Dibenz[a,h]anthracene	0.980	1.046	-6.7	140	0.03	17.58
98	P	Benzo[g,h,i]perylene	1.037	1.061	-2.3	139	0.02	17.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U033673.D 8270d.m Wed Oct 10 13:32:32 2012

6.7.12

6

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1620-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034183.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\101012\U034183.D Vial: 2
Acq On : 10 Oct 2012 11:58 am Operator: nancyf
Sample : cc1599-50 Inst : MSBNA04
Misc : op43856,su1620,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 12:13:14 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	132	0.00	3.76
2		1,4-Dioxane	0.443	0.556	-25.5#	162	0.00	1.15
3		N-nitrosodimethylamine	0.506	0.579	-14.4	138	0.00	1.38
4		Pyridine	1.235	1.465	-18.6	162	0.00	1.38
5	S	2-Fluorophenol	1.340	1.362	-1.6	133	-0.03	2.78
6	P	Benzaldehyde	0.823	0.928	-12.8	141	-0.02	3.44
7		Aniline	1.968	2.153	-9.4	143	0.00	3.54
8	P	bis(2-Chloroethyl)ether	1.302	1.444	-10.9	145	0.00	3.60
9	S	Phenol-d5	1.712	1.943	-13.5	147	0.03	3.61
10	P	Phenol	1.741	2.063	-18.5	159	0.03	3.62
11	P	2-Chlorophenol	1.492	1.545	-3.6	135	0.00	3.63
12		1,3-Dichlorobenzene	1.636	1.674	-2.3	132	0.00	3.71
13		1,4-Dichlorobenzene	1.710	1.694	0.9	129	0.00	3.77
14		1,2-Dichlorobenzene	1.597	1.613	-1.0	133	0.00	3.88
15		Benzyl alcohol	0.926	0.992	-7.1	137	0.00	3.92
16	P	2-Methylphenol	1.329	1.412	-6.2	137	0.00	4.05
17	P	bis(2-chloroisopropyl)eth	1.467	1.632	-11.2	143	0.01	4.00
18	P	Acetophenone	1.943	2.009	-3.4	133	0.01	4.08
19	P	N-Nitroso-di-n-propylamin	0.990	1.090	-10.1	144	0.03	4.12
20	P	3&4-Methylphenol	1.433	1.491	-4.0	132	0.00	4.16
21	P	Hexachloroethane	0.673	0.675	-0.3	128	0.00	4.12
22	I	Naphthalene-d8	1.000	1.000	0.0	126	0.00	4.69
23	S	Nitrobenzene-d5	0.400	0.429	-7.2	136	0.00	4.19
24	P	Nitrobenzene	0.388	0.416	-7.2	134	0.00	4.21
25	P	Isophorone	0.646	0.717	-11.0	141	0.00	4.39
26	P	2-Nitrophenol	0.205	0.215	-4.9	131	0.00	4.43
27	P	2,4-Dimethylphenol	0.370	0.403	-8.9	140	0.03	4.52
28	P	bis(2-Chloroethoxy)methan	0.388	0.419	-8.0	139	0.00	4.56
		----------	Amount	Calc.	%Drift		----------	
29		Benzoic Acid	50.000	47.707	4.6	122	0.04	4.71
		----------	AvgRF	CCRF	%Dev		----------	
30	P	2,4-Dichlorophenol	0.305	0.324	-6.2	135	0.01	4.63
31		1,2,4-Trichlorobenzene	0.343	0.352	-2.6	129	0.00	4.66
32	P	Naphthalene	1.064	1.140	-7.1	135	0.00	4.71
33	P	4-Chloroaniline	0.457	0.496	-8.5	137	0.00	4.79
34		2,6-Dichlorophenol	0.306	0.329	-7.5	135	0.01	4.79
35	P	Hexachlorobutadiene	0.204	0.199	2.5	122	0.00	4.81
36	P	Caprolactam	0.088	0.102	-15.9	145	0.00	5.15
37	P	4-Chloro-3-methylphenol	0.307	0.332	-8.1	139	0.02	5.27

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1620-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034183.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	2-Methylnaphthalene	0.703	0.754	-7.3	139	-0.01	5.30
39		1-Methylnaphthalene	0.644	0.693	-7.6	137	-0.02	5.39
40	P	1,2,4,5-Tetrachlorobenzen	0.342	0.363	-6.1	134	-0.02	5.46
41	I	Acenaphthene-d10	1.000	1.000	0.0	130	0.00	6.45
		----------	Amount	Calc.	%Drift		----------	
42	P	Hexachlorocyclopentadiene	50.000	49.367	1.3	126	0.00	5.44
		----------	AvgRF	CCRF	%Dev		----------	
43	P	2,4,6-Trichlorophenol	0.403	0.428	-6.2	138	0.00	5.62
44	P	2,4,5-Trichlorophenol	0.421	0.436	-3.6	135	0.00	5.67
45	S	2-Fluorobiphenyl	1.404	1.478	-5.3	137	0.00	5.69
46	P	1,1'-Biphenyl	1.622	1.659	-2.3	132	0.00	5.80
47	P	2-Chloronaphthalene	1.256	1.309	-4.2	135	0.00	5.80
48	P	2-Nitroaniline	0.351	0.390	-11.1	144	0.02	5.97
49		p-Dinitrobenzene	0.248	0.281	-13.3	146	0.00	6.16
50	P	Dimethylphthalate	1.302	1.411	-8.4	144	0.00	6.23
51		m-Dinitrobenzene	0.224	0.251	-12.1	144	0.00	6.26
52	P	2,6-Dinitrotoluene	0.314	0.332	-5.7	138	0.00	6.29
53	P	Acenaphthylene	1.929	2.077	-7.7	140	0.00	6.27
54		o-Dinitrobenzene	0.164	0.182	-11.0	148	0.00	6.35
55	P	3-Nitroaniline	0.350	0.392	-12.0	150	0.01	6.50
56	P	Acenaphthene	1.242	1.315	-5.9	139	0.00	6.50
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	50.000	52.126	-4.3	136	0.01	6.65
		----------	AvgRF	CCRF	%Dev		----------	
58	P	4-Nitrophenol	0.173	0.179	-3.5	136	0.00	6.89
59	P	Dibenzofuran	1.621	1.766	-8.9	143	0.00	6.74
60	P	2,4-Dinitrotoluene	0.398	0.438	-10.1	144	0.00	6.83
61		2,3,5,6-Tetrachlorophenol	0.334	0.304	9.0	116	0.02	6.90
62	P	2,3,4,6-Tetrachlorophenol	0.335	0.332	0.9	127	0.01	6.96
63	P	Diethylphthalate	1.296	1.406	-8.5	142	0.00	7.22
64	P	Fluorene	1.379	1.471	-6.7	141	0.00	7.22
65	P	4-Chlorophenyl-phenylethe	0.660	0.680	-3.0	136	0.00	7.28
66	P	4-Nitroaniline	0.308	0.343	-11.4	147	0.02	7.40
67	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	8.69
68	P	4,6-Dinitro-2-methylpheno	0.147	0.169	-15.0	140	-0.01	7.43
69	P	n-Nitrosodiphenylamine	0.559	0.622	-11.3	144	-0.01	7.50
70		1,2-Diphenylhydrazine	0.840	0.984	-17.1	148	-0.01	7.52
71	S	2,4,6-Tribromophenol	0.082	0.085	-3.7	134	0.00	7.61
72	P	4-Bromophenyl-phenylether	0.206	0.222	-7.8	138	-0.01	8.04
73	P	Hexachlorobenzene	0.197	0.209	-6.1	138	-0.02	8.05
74		Simazine	0.099	0.103	-4.0	112	0.02	8.44
75	P	Atrazine	0.237	0.253	-6.8	134	0.02	8.50
76	P	Pentachlorophenol	0.125	0.096	23.2#	94	0.01	8.45
77	P	Phenanthrene	1.090	1.227	-12.6	147	0.00	8.73
78	P	Anthracene	1.121	1.255	-12.0	146	0.00	8.82
79	P	Carbazole	0.990	1.130	-14.1	147	0.02	9.19
80	P	Di-n-butylphthalate	1.196	1.340	-12.0	146	0.00	10.00
81	P	Fluoranthene	1.125	1.275	-13.3	146	0.00	10.80
82	I	Chrysene-d12	1.000	1.000	0.0	136	0.00	13.45
83		Benzidine	0.524	0.630	-20.2#	143	0.00	11.23
84	P	Pyrene	1.234	1.306	-5.8	145	0.00	11.18
85	S	Terphenyl-d14	0.802	0.846	-5.5	143	-0.04	11.66
86	P	Butylbenzylphthalate	0.518	0.559	-7.9	146	0.00	12.73

Continuing Calibration Summary

Job Number: F97561A **Sample:** SU1620-CC1599
Account: CSXT CSX Transportation **Lab FileID:** U034183.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

87	P	3,3'-Dichlorobenzidine	0.384	0.434	-13.0	151	0.00	13.55
88	P	Benzo[a]anthracene	1.085	1.162	-7.1	145	0.00	13.43
89	P	Chrysene	1.026	1.085	-5.8	145	0.00	13.50
90	P	bis(2-Ethylhexyl)phthalat	0.710	0.764	-7.6	145	0.03	13.94
91	I	Perylene-d12	1.000	1.000	0.0	135	0.00	15.89
92	P	Di-n-octylphthalate	1.490	1.634	-9.7	148	0.00	15.12
93	P	Benzo[b]fluoranthene	1.265	1.346	-6.4	152	-0.01	15.30
94	P	Benzo[k]fluoranthene	1.151	1.257	-9.2	148	0.00	15.36
95	P	Benzo[a]pyrene	1.184	1.264	-6.8	145	0.00	15.80
96	P	Indeno[1,2,3-cd]pyrene	1.007	1.050	-4.3	145	0.03	17.46
97	P	Dibenz[a,h]anthracene	0.980	1.052	-7.3	146	0.03	17.52
98	P	Benzo[g,h,i]perylene	1.037	1.098	-5.9	142	0.02	17.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U033671.D 8270d.m Thu Oct 11 12:13:54 2012

6.7.13

6

Initial Calibration Summary

Job Number: F97561A **Sample:** SW3290-ICC3290
Account: CSXT CSX Transportation **Lab FileID:** W067842.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA01

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Initial Calibration

Calibration Files
L1 =W067839.D L2 =W067840.D L3 =W067841.D L4 =W067842.D
L5 =W067843.D L6 =W067844.D L7 =W067845.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.370	0.342	0.370	0.345	0.367	0.373	0.364	0.361	3.50
3)P Naphthalene	1.260	1.129	1.157	1.067	1.127	1.098	1.000	1.120	7.19
4)P 2-Methylnaphthale	0.786	0.731	0.782	0.716	0.759	0.739	0.671	0.740	5.45
5)P 1-Methylnaphthale	0.759	0.682	0.732	0.668	0.707	0.687	0.635	0.696	5.93
6) I Acenaphthene-d10	ISTD								
7)S 2-Fluorobiphenyl	1.622	1.445	1.445	1.349	1.415	1.356	1.279	1.416	7.68
8)P Acenaphthylene	2.080	2.234	1.962	1.821	1.917	1.849	1.658	1.932	9.65
9)P Acenaphthene	1.370	1.230	1.255	1.129	1.193	1.164	1.060	1.200	8.25
10)P Fluorene	1.521	1.388	1.410	1.322	1.395	1.394	1.304	1.391	5.07
11) I Phenanthrene-d10	ISTD								
12)S 2,4,6-Tribromophe	0.063	0.063	0.071	0.068	0.073	0.075	0.074	0.070	7.03
13)P Pentachlorophenol	0.040	0.054	0.083	0.094	0.111	0.116	0.116	0.088	34.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974									
Response Ratio = 0.00000 + 0.10314 *A + 0.00053 *A^2									
14)P Phenanthrene	1.415	1.247	1.261	1.140	1.168	1.124	1.018	1.196	10.55
15)P Anthracene	1.310	1.171	1.244	1.151	1.206	1.218	1.121	1.203	5.24
16)P Fluoranthene	1.498	1.331	1.354	1.261	1.282	1.250	1.123	1.300	8.81
17) I Chrysene-d12	ISTD								
18)P Pyrene	1.945	1.775	1.761	1.587	1.623	1.552	1.393	1.662	10.82
19)S Terphenyl-d14	0.985	0.913	0.912	0.811	0.855	0.863	0.776	0.873	8.00
20)P Benzo[a]anthracen	1.405	1.232	1.278	1.216	1.313	1.316	1.285	1.292	4.84
21)P Chrysene	1.534	1.356	1.362	1.273	1.344	1.362	1.289	1.360	6.26
22) I Perylene-d12	ISTD								
23)P Benzo[b]fluoranth	1.770	1.749	1.862	1.776	1.850	1.971	1.833	1.830	4.14
24)P Benzo[k]fluoranth	1.729	1.531	1.620	1.591	1.726	1.646	1.688	1.647	4.43
25)P Benzo[a]pyrene	1.195	1.152	1.277	1.244	1.372	1.417	1.376	1.290	7.80
26)P Indeno[1,2,3-cd]p	0.678	0.645	0.743	0.772	0.827	0.893	0.923	0.783	13.33
27)P Dibenz[a,h]anthra	0.617	0.608	0.706	0.723	0.792	0.836	0.902	0.741	14.81
28)P Benzo[g,h,i]peryl	0.906	0.810	0.923	0.923	0.983	1.027	1.019	0.941	8.04

(#) = Out of Range

simpahf.m Mon Oct 08 10:26:54 2012

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Sample: SW3290-ICV3290
Lab FileID: W067846.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100512\W067846.D Vial: 9
Acq On : 5 Oct 2012 5:45 pm Operator: mayrag
Sample : icv3290-4 Inst : MSBNA01
Misc : op42714,sw3290,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	77	0.00	4.58
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene	10.000	9.628	3.7	78	0.00	4.59
4	P	2-Methylnaphthalene	10.000	9.276	7.2	74	0.00	5.19
5	P	1-Methylnaphthalene	10.000	9.397	6.0	76	0.00	5.29
6	I	Acenaphthene-d10	4.000	4.000	0.0	79	0.00	6.12
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene	10.000	9.327	6.7	78	0.00	5.98
9	P	Acenaphthene	10.000	9.680	3.2	81	0.00	6.14
10	P	Fluorene	10.000	9.660	3.4	80	0.00	6.59
11	I	Phenanthrene-d10	4.000	4.000	0.0	77	0.00	7.40
12	S	2,4,6-Tribromophenol		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
13	P	Pentachlorophenol		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
14	P	Phenanthrene	10.000	9.837	1.6	80	0.00	7.42
15	P	Anthracene	5.000	4.929	1.4	80	0.00	7.45
16	P	Fluoranthene	10.000	9.866	1.3	79	0.00	8.48
17	I	Chrysene-d12	4.000	4.000	0.0	77	0.00	9.96
18	P	Pyrene	10.000	9.776	2.2	79	0.00	8.67
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene	5.000	4.638	7.2	76	0.00	9.94
21	P	Chrysene	5.000	4.781	4.4	79	0.00	9.99
22	I	Perylene-d12	4.000	4.000	0.0	78	0.00	12.12
23	P	Benzo[b]fluoranthene	5.000	4.814	3.7	78	0.00	11.50
24	P	Benzo[k]fluoranthene	5.000	4.765	4.7	77	0.00	11.54
25	P	Benzo[a]pyrene	5.000	4.837	3.3	79	0.00	12.02
26	P	Indeno[1,2,3-cd]pyrene	5.000	4.686	6.3	74	0.00	14.03
27	P	Dibenz[a,h]anthracene	5.000	4.687	6.3	75	0.00	14.09
28	P	Benzo[g,h,i]perylene	5.000	4.875	2.5	78	-0.01	14.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Mon Oct 08 10:22:50 2012

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SW3290-ICV3290
Lab FileID: W067847.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100512\W067847.D Vial: 10
Acq On : 5 Oct 2012 6:06 pm Operator: mayrag
Sample : icv3290-4,pcp Inst : MSBNA01
Misc : op42714,sw3290,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 08 10:20:11 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	84	0.00	4.58
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene		----------NA----------				
4	P	2-Methylnaphthalene		----------NA----------				
5	P	1-Methylnaphthalene		----------NA----------				
6	I	Acenaphthene-d10	4.000	4.000	0.0	84	0.00	6.12
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene		----------NA----------				
9	P	Acenaphthene		----------NA----------				
10	P	Fluorene		----------NA----------				
11	I	Phenanthrene-d10	4.000	4.000	0.0	82	0.00	7.40
12	S	2,4,6-Tribromophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	23.713	5.1	88	0.00	7.30
		----------	Amount	Calc.	%Drift	----------		
14	P	Phenanthrene		----------NA----------				
15	P	Anthracene		----------NA----------				
16	P	Fluoranthene		----------NA----------				
17	I	Chrysene-d12	4.000	4.000	0.0	77	0.00	9.96
18	P	Pyrene		----------NA----------				
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene		----------NA----------				
21	P	Chrysene		----------NA----------				
22	I	Perylene-d12	4.000	4.000	0.0	74	0.00	12.12
23	P	Benzo[b]fluoranthene		----------NA----------				
24	P	Benzo[k]fluoranthene		----------NA----------				
25	P	Benzo[a]pyrene		----------NA----------				
26	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
27	P	Dibenz[a,h]anthracene		----------NA----------				
28	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Mon Oct 08 10:22:52 2012

Continuing Calibration Summary

Job Number: F97561A **Sample:** SW3293-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W067892.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100912\W067892.D Vial: 2
Acq On : 9 Oct 2012 11:58 am Operator: mayrag
Sample : cc3290-4 Inst : MSBNA01
Misc : op42714,sw3293,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Oct 10 11:18:22 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	68	0.00	4.57
2	S	Nitrobenzene-d5	0.361	0.371	-2.8	74	0.00	3.98
3	P	Naphthalene	1.120	1.146	-2.3	73	0.00	4.57
4	P	2-Methylnaphthalene	0.740	0.755	-2.0	72	0.00	5.17
5	P	1-Methylnaphthalene	0.696	0.708	-1.7	72	0.00	5.27
6	I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00	6.10
7	S	2-Fluorobiphenyl	1.416	1.429	-0.9	72	0.00	5.51
8	P	Acenaphthylene	1.932	1.948	-0.8	72	0.00	5.96
9	P	Acenaphthene	1.200	1.222	-1.8	73	0.00	6.13
10	P	Fluorene	1.391	1.423	-2.3	73	0.00	6.57
11	I	Phenanthrene-d10	1.000	1.000	0.0	69	0.00	7.38
12	S	2,4,6-Tribromophenol	0.070	0.074	-5.7	75	0.00	6.80
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	24.511	2.0	77	0.00	7.28
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.217	-1.8	73	0.00	7.40
15	P	Anthracene	1.203	1.205	-0.2	72	0.00	7.44
16	P	Fluoranthene	1.300	1.349	-3.8	74	0.00	8.46
17	I	Chrysene-d12	1.000	1.000	0.0	70	0.00	9.93
18	P	Pyrene	1.662	1.661	0.1	74	0.00	8.65
19	S	Terphenyl-d14	0.873	0.873	0.0	76	0.00	8.82
20	P	Benzo[a]anthracene	1.292	1.307	-1.2	75	0.00	9.92
21	P	Chrysene	1.360	1.337	1.7	74	0.00	9.96
22	I	Perylene-d12	1.000	1.000	0.0	72	0.00	12.08
23	P	Benzo[b]fluoranthene	1.830	1.630	10.9	66	0.00	11.47
24	P	Benzo[k]fluoranthene	1.647	1.520	7.7	69	0.00	11.51
25	P	Benzo[a]pyrene	1.290	1.356	-5.1	79	0.00	11.99
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.831	-6.1	78	0.00	13.99
27	P	Dibenz[a,h]anthracene	0.741	0.780	-5.3	78	0.00	14.06
28	P	Benzo[g,h,i]perylene	0.941	0.971	-3.2	76	0.00	14.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Wed Oct 10 11:38:43 2012

6.7.17
6

Continuing Calibration Summary

Job Number: F97561A **Sample:** SW3296-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W067988.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101212\W067988.D Vial: 2
Acq On : 12 Oct 2012 11:21 am Operator: mayrag
Sample : cc3290-5 Inst : MSBNA01
Misc : op42714,sw3296,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Oct 15 08:37:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	112	0.00	4.51
2	S	Nitrobenzene-d5	0.361	0.369	-2.2	113	-0.01	3.92
3	P	Naphthalene	1.120	1.106	1.3	110	0.00	4.52
4	P	2-Methylnaphthalene	0.740	0.738	0.3	109	0.00	5.11
5	P	1-Methylnaphthalene	0.696	0.685	1.6	109	0.01	5.21
6	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	6.04
7	S	2-Fluorobiphenyl	1.416	1.412	0.3	110	0.00	5.45
8	P	Acenaphthylene	1.932	1.918	0.7	110	0.00	5.90
9	P	Acenaphthene	1.200	1.197	0.2	111	0.00	6.06
10	P	Fluorene	1.391	1.390	0.1	110	0.00	6.51
11	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	7.32
12	S	2,4,6-Tribromophenol	0.070	0.075	-7.1	113	-0.01	6.74
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	37.500	34.419	8.2	98	0.00	7.22
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.174	1.8	110	0.00	7.34
15	P	Anthracene	1.203	1.203	0.0	109	0.00	7.38
16	P	Fluoranthene	1.300	1.268	2.5	108	0.00	8.39
17	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	9.84
18	P	Pyrene	1.662	1.673	-0.7	109	0.02	8.59
19	S	Terphenyl-d14	0.873	0.868	0.6	107	0.02	8.75
20	P	Benzo[a]anthracene	1.292	1.301	-0.7	104	0.00	9.83
21	P	Chrysene	1.360	1.344	1.2	105	0.00	9.87
22	I	Perylene-d12	1.000	1.000	0.0	107	0.00	11.96
23	P	Benzo[b]fluoranthene	1.830	1.497	18.2	86	0.00	11.35
24	P	Benzo[k]fluoranthene	1.647	1.727	-4.9	107	0.00	11.39
25	P	Benzo[a]pyrene	1.290	1.373	-6.4	107	0.00	11.86
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.844	-7.8	109	-0.02	13.83
27	P	Dibenz[a,h]anthracene	0.741	0.802	-8.2	108	-0.01	13.90
28	P	Benzo[g,h,i]perylene	0.941	0.978	-3.9	106	-0.02	14.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067843.D simpahf.m Mon Oct 15 11:42:57 2012

Continuing Calibration Summary

Job Number: F97561A **Sample:** SW3297-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W068007.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101512\W068007.D Vial: 2
Acq On : 15 Oct 2012 10:07 am Operator: mayrag
Sample : cc3290-4 Inst : MSBNA01
Misc : op42714,sw3297,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Tue Oct 16 08:42:48 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00	4.51
2	S	Nitrobenzene-d5	0.361	0.371	-2.8	122	-0.01	3.92
3	P	Naphthalene	1.120	1.124	-0.4	119	0.00	4.52
4	P	2-Methylnaphthalene	0.740	0.749	-1.2	118	0.00	5.11
5	P	1-Methylnaphthalene	0.696	0.694	0.3	118	0.01	5.21
6	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	6.04
7	S	2-Fluorobiphenyl	1.416	1.395	1.5	119	0.00	5.45
8	P	Acenaphthylene	1.932	1.858	3.8	118	0.00	5.90
9	P	Acenaphthene	1.200	1.186	1.2	121	0.00	6.06
10	P	Fluorene	1.391	1.341	3.6	117	0.00	6.51
11	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	7.31
12	S	2,4,6-Tribromophenol	0.070	0.072	-2.9	119	0.00	6.74
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	22.572	9.7	115	0.00	7.22
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.199	-0.3	119	0.00	7.34
15	P	Anthracene	1.203	1.174	2.4	115	0.00	7.38
16	P	Fluoranthene	1.300	1.315	-1.2	118	0.01	8.39
17	I	Chrysene-d12	1.000	1.000	0.0	110	0.00	9.84
18	P	Pyrene	1.662	1.679	-1.0	117	0.02	8.58
19	S	Terphenyl-d14	0.873	0.877	-0.5	119	0.02	8.75
20	P	Benzo[a]anthracene	1.292	1.274	1.4	115	0.00	9.82
21	P	Chrysene	1.360	1.312	3.5	113	0.00	9.87
22	I	Perylene-d12	1.000	1.000	0.0	110	0.00	11.95
23	P	Benzo[b]fluoranthene	1.830	1.518	17.0	94	0.00	11.35
24	P	Benzo[k]fluoranthene	1.647	1.577	4.3	109	0.00	11.38
25	P	Benzo[a]pyrene	1.290	1.302	-0.9	116	0.00	11.86
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.802	-2.4	115	0.00	13.83
27	P	Dibenz[a,h]anthracene	0.741	0.738	0.4	113	-0.01	13.89
28	P	Benzo[g,h,i]perylene	0.941	0.927	1.5	111	-0.01	14.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Tue Oct 16 14:18:33 2012

Continuing Calibration Summary

Job Number: F97561A **Sample:** SW3299-CC3290
Account: CSXT CSX Transportation **Lab FileID:** W068053.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101612\W068053.D Vial: 2
Acq On : 16 Oct 2012 10:59 am Operator: mayrag
Sample : cc3290-4 Inst : MSBNA01
Misc : op42714,sw3299,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Oct 17 09:34:43 2012
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	4.49
2	S	Nitrobenzene-d5	0.361	0.360	0.3	104	0.00	3.91
3	P	Naphthalene	1.120	1.105	1.3	103	0.00	4.51
4	P	2-Methylnaphthalene	0.740	0.727	1.8	101	0.00	5.10
5	P	1-Methylnaphthalene	0.696	0.681	2.2	101	0.00	5.19
6	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	6.03
7	S	2-Fluorobiphenyl	1.416	1.409	0.5	104	0.00	5.44
8	P	Acenaphthylene	1.932	1.918	0.7	105	0.00	5.89
9	P	Acenaphthene	1.200	1.187	1.1	104	0.00	6.05
10	P	Fluorene	1.391	1.368	1.7	103	0.00	6.50
11	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00	7.31
12	S	2,4,6-Tribromophenol	0.070	0.076	-8.6	109	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
13	P	Pentachlorophenol	25.000	21.437	14.3	95	0.00	7.20
		----------	AvgRF	CCRF	%Dev	----------		
14	P	Phenanthrene	1.196	1.192	0.3	102	0.00	7.32
15	P	Anthracene	1.203	1.178	2.1	100	0.00	7.36
16	P	Fluoranthene	1.300	1.305	-0.4	101	0.00	8.38
17	I	Chrysene-d12	1.000	1.000	0.0	96	0.00	9.83
18	P	Pyrene	1.662	1.655	0.4	100	0.02	8.58
19	S	Terphenyl-d14	0.873	0.882	-1.0	104	0.02	8.74
20	P	Benzo[a]anthracene	1.292	1.265	2.1	100	0.00	9.81
21	P	Chrysene	1.360	1.311	3.6	99	0.00	9.86
22	I	Perylene-d12	1.000	1.000	0.0	96	0.00	11.94
23	P	Benzo[b]fluoranthene	1.830	1.617	11.6	87	0.00	11.33
24	P	Benzo[k]fluoranthene	1.647	1.554	5.6	94	0.00	11.37
25	P	Benzo[a]pyrene	1.290	1.340	-3.9	103	0.00	11.84
26	P	Indeno[1,2,3-cd]pyrene	0.783	0.793	-1.3	99	0.00	13.81
27	P	Dibenz[a,h]anthracene	0.741	0.744	-0.4	99	0.00	13.87
28	P	Benzo[g,h,i]perylene	0.941	0.912	3.1	95	0.00	14.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
W067842.D simpahf.m Wed Oct 17 10:49:19 2012

Initial Calibration Summary

Job Number: F97561A **Sample:** SX1244-ICC1244
Account: CSXT CSX Transportation **Lab FileID:** X025741.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Initial Calibration

Calibration Files
5 =X025736.D 10 =X025737.D 25 =X025738.D 50 =X025739.D
60 =X025740.D 75 =X025741.D 100 =X025742.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.533	0.539	0.533	0.525	0.519	0.519	0.497	0.524	2.70
3) N-nitrosodimethyl	0.899	0.919	0.869	0.839	0.815	0.823	0.814	0.854	4.95
4) Pyridine	1.553	1.428	1.396	1.427	1.361	1.424	1.450	1.434	4.16
5)S 2-Fluorophenol	1.341	1.328	1.290	1.222	1.184	1.168	1.136	1.238	6.59
6)P Benzaldehyde	0.990	0.981	0.877	0.594	0.526	0.443		0.735	33.04
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9918									
Response Ratio = 0.00000 + 1.00040 *A + -0.30478 *A^2									
7) Aniline	2.149	2.083	2.094	2.025	1.947	1.943	1.987	2.033	3.88
8)P bis(2-Chloroethyl	1.364	1.325	1.251	1.147	1.088	1.057	0.983	1.174	12.21
9)S Phenol-d5	1.745	1.729	1.588	1.478	1.415	1.369	1.300	1.518	11.49
10)P Phenol	1.780	1.767	1.736	1.568	1.493	1.371	1.366	1.583	11.45
11)P 2-Chlorophenol	1.456	1.496	1.460	1.372	1.298	1.250	1.111	1.349	10.25
12) 1,3-Dichlorobenze	1.590	1.636	1.590	1.518	1.459	1.428	1.366	1.513	6.55
13) 1,4-Dichlorobenze	1.660	1.649	1.608	1.514	1.430	1.411	1.347	1.517	8.25
14) 1,2-Dichlorobenze	1.564	1.589	1.518	1.410	1.362	1.318	1.274	1.434	8.68
15) Benzyl alcohol	0.990	0.966	0.924	0.919	0.857	0.867	0.893	0.917	5.34
16)P 2-Methylphenol	1.333	1.363	1.328	1.280	1.208	1.211	1.207	1.276	5.28
17)P bis(2-chloroisopr	2.691	2.699	2.561	2.384	2.265	2.228	2.145	2.425	9.37
18)P Acetophenone	1.992	1.977	1.914	1.831	1.738	1.732	1.765	1.850	6.02
19)P N-Nitroso-di-n-pr	1.003	1.019	0.974	0.957	0.878	0.884	0.885	0.943	6.36
20)P 3&4-Methylphenol	1.453	1.446	1.402	1.342	1.253	1.260	1.254	1.344	6.72
21)P Hexachloroethane	0.664	0.672	0.649	0.626	0.601	0.587	0.551	0.621	7.10
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.386	0.385	0.385	0.374	0.364	0.363	0.357	0.374	3.23
24)P Nitrobenzene	0.382	0.386	0.374	0.371	0.360	0.346	0.348	0.367	4.35
25)P Isophorone	0.669	0.673	0.658	0.658	0.626	0.636	0.649	0.653	2.60
26)P 2-Nitrophenol	0.207	0.217	0.217	0.213	0.208	0.203	0.201	0.209	3.06
27)P 2,4-Dimethylpheno	0.380	0.370	0.355	0.352	0.339	0.334	0.320	0.350	5.93
28)P bis(2-Chloroethox	0.406	0.409	0.402	0.397	0.384	0.380	0.377	0.394	3.33
29) Benzoic Acid	0.316	0.343	0.303	0.338	0.317	0.328	0.348	0.328	5.02
30)P 2,4-Dichloropheno	0.333	0.323	0.311	0.301	0.286	0.277	0.267	0.300	8.09
31) 1,2,4-Trichlorobe	0.345	0.345	0.335	0.326	0.314	0.311	0.299	0.325	5.51
32)P Naphthalene	1.127	1.108	1.070	1.010	0.952	0.939	0.881	1.012	9.18
33)P 4-Chloroaniline	0.487	0.486	0.449	0.418	0.398	0.377	0.352	0.424	12.33
34) 2,6-Dichloropheno	0.333	0.322	0.304	0.289	0.271	0.269	0.258	0.292	9.76
35)P Hexachlorobutadie	0.197	0.187	0.183	0.177	0.169	0.166	0.152	0.176	8.51
36)P Caprolactam	0.120	0.121	0.108	0.110	0.104	0.114	0.131	0.115	8.00
37)P 4-Chloro-3-methyl	0.327	0.315	0.302	0.300	0.285	0.283	0.286	0.300	5.47
38)P 2-Methylnaphthale	0.736	0.737	0.691	0.671	0.640	0.618	0.864	0.708	11.57
39) 1-Methylnaphthale	0.680	0.679	0.636	0.621	0.593	0.581	0.562	0.622	7.44
40)P 1,2,4,5-Tetrachlo	0.336	0.334	0.324	0.314	0.300	0.298	0.288	0.313	5.96
41) I Acenaphthene-d10	----------ISTD----------								

Initial Calibration Summary

Job Number: F97561A **Sample:** SX1244-ICC1244
Account: CSXT CSX Transportation **Lab FileID:** X025741.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

42)P Hexachlorocyclope	0.346	0.361	0.387	0.385	0.388	0.363	0.342	0.367	5.30
43)P 2,4,6-Trichloroph	0.433	0.438	0.430	0.413	0.410	0.389	0.381	0.414	5.28
44)P 2,4,5-Trichloroph	0.468	0.459	0.444	0.433	0.421	0.407	0.373	0.429	7.58
45)S 2-Fluorobiphenyl	1.496	1.475	1.438	1.353	1.317	1.269	1.177	1.361	8.57
46)P 1,1'-Biphenyl	1.693	1.652	1.554	1.480	1.417	1.335	1.204	1.476	11.78
47)P 2-Chloronaphthale	1.295	1.274	1.216	1.144	1.113	1.065	0.995	1.157	9.53
48)P 2-Nitroaniline	0.417	0.427	0.410	0.404	0.391	0.386	0.378	0.402	4.35
49) p-Dinitrobenzene	0.255	0.254	0.252	0.253	0.241	0.238	0.241	0.248	2.97
50)P Dimethylphthalate	1.421	1.375	1.254	1.220	1.163	1.146	1.118	1.242	9.37
51) m-Dinitrobenzene	0.239	0.241	0.223	0.215	0.203	0.201	0.200	0.217	8.16
52)P 2,6-Dinitrotoluen	0.318	0.321	0.313	0.310	0.304	0.289	0.295	0.307	3.82
53) o-Dinitrobenzene	0.255	0.254	0.244	0.242	0.234	0.231	0.235	0.242	3.97
54)P Acenaphthylene	2.095	2.058	1.894	1.811	1.749	1.693	1.650	1.850	9.41
55)P 3-Nitroaniline	0.414	0.395	0.381	0.361	0.341	0.329	0.322	0.363	9.64
56)P Acenaphthene	1.296	1.283	1.222	1.135	1.085	1.037	0.988	1.149	10.51
57)P 2,4-Dinitrophenol	0.167	0.187	0.211	0.227	0.219	0.219	0.226	0.208	10.87
58)P 4-Nitrophenol	0.191	0.191	0.175	0.174	0.166	0.160	0.158	0.173	7.85
59)P Dibenzofuran	1.815	1.782	1.689	1.624	1.583	1.527	1.458	1.640	7.97
60)P 2,4-Dinitrotoluen	0.412	0.418	0.399	0.389	0.370	0.363	0.364	0.388	5.82
61)P 2,3,5,6-Tetrachlo	0.324	0.337	0.329	0.327	0.311	0.305	0.304	0.320	4.01
62)P 2,3,4,6-Tetrachlo	0.333	0.330	0.327	0.320	0.306	0.296	0.296	0.316	5.03
63)P Diethylphthalate	1.418	1.383	1.288	1.237	1.191	1.165	1.149	1.262	8.40
64)P Fluorene	1.429	1.412	1.332	1.287	1.234	1.199	1.160	1.293	7.99
65)P 4-Chlorophenyl-ph	0.644	0.654	0.613	0.586	0.564	0.546	0.536	0.592	7.86
66)P 4-Nitroaniline	0.379	0.370	0.346	0.347	0.330	0.325	0.335	0.347	5.80
67) I Phenanthrene-d10	----------ISTD----------								
68)P 4,6-Dinitro-2-met	0.137	0.154	0.161	0.165	0.163	0.159	0.153	0.156	6.14
69)P n-Nitrosodiphenyl	0.631	0.629	0.605	0.571	0.559	0.526	0.485	0.572	9.45
70) 1,2-Diphenylhydra	0.960	0.971	0.941	0.901	0.881	0.867	0.800	0.903	6.65
71)S 2,4,6-Tribromophe	0.108	0.110	0.108	0.108	0.105	0.102	0.101	0.106	3.23
72)P 4-Bromophenyl-phe	0.210	0.212	0.207	0.201	0.200	0.193	0.189	0.202	4.31
73)P Hexachlorobenzene	0.225	0.230	0.219	0.218	0.215	0.209	0.204	0.217	4.16
74) Simazine	0.125	0.124	0.116	0.114	0.111	0.106	0.106	0.115	6.81
75)P Atrazine	0.217	0.210	0.226	0.217	0.206	0.193	0.195	0.209	5.78
76)P Pentachlorophenol	0.130	0.144	0.149	0.151	0.150	0.145	0.145	0.145	4.94
77)P Phenanthrene	1.182	1.172	1.100	1.075	1.036	1.008	0.977	1.079	7.29
78)P Anthracene	1.185	1.191	1.145	1.115	1.067	1.039	1.013	1.108	6.37
79)P Carbazole	1.148	1.152	1.061	1.041	1.001	0.981	0.968	1.050	7.19
80)P Di-n-butylphthala	1.287	1.289	1.236	1.212	1.169	1.137	1.119	1.207	5.68
81)P Fluoranthene	1.096	1.109	1.024	1.018	0.967	0.941	0.952	1.015	6.66
82) I Chrysene-d12	----------ISTD----------								
83) Benzidine	0.751	0.795	0.885	0.728	0.677	0.620	0.611	0.724	13.54
84)P Pyrene	1.527	1.472	1.536	1.497	1.476	1.449	1.391	1.479	3.34
85)S Terphenyl-d14	0.922	0.910	0.940	0.916	0.914	0.895	0.864	0.909	2.62
86)P Butylbenzylphthal	0.650	0.643	0.655	0.643	0.628	0.619	0.605	0.635	2.85
87)P 3,3'-Dichlorobenz	0.445	0.453	0.442	0.414	0.392	0.380	0.373	0.414	8.05
88)P Benzo[a]anthracen	1.141	1.137	1.114	1.109	1.089	1.079	1.089	1.108	2.19
89)P Chrysene	1.092	1.107	1.080	1.054	1.025	1.019	0.996	1.053	3.96
90)P bis(2-Ethylhexyl)	0.845	0.851	0.878	0.855	0.829	0.825	0.796	0.840	3.13
91) I Perylene-d12	----------ISTD----------								
92)P Di-n-octylphthala	1.550	1.558	1.688	1.614	1.582	1.571	1.479	1.578	4.05
93)P Benzo[b]fluoranth	1.137	1.162	1.190	1.142	1.199	1.170	1.303	1.186	4.75
94)P Benzo[k]fluoranth	1.160	1.138	1.138	1.073	1.057	1.070	0.786	1.060	12.02
95)P Benzo[a]pyrene	1.086	1.079	1.100	1.096	1.063	1.072	1.065	1.080	1.35
96)P Indeno[1,2,3-cd]p	0.838	0.862	0.841	0.845	0.848	0.844	0.871	0.850	1.41
97)P Dibenz[a,h]anthra	0.832	0.847	0.840	0.845	0.834	0.840	0.889	0.847	2.31
98)P Benzo[g,h,i]peryl	0.967	0.971	0.936	0.947	0.924	0.934	0.945	0.946	1.81

Initial Calibration Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-ICC1244
Lab FileID: X025741.D

(#) = Out of Range

8270d.m Tue Oct 02 09:09:50 2012

Initial Calibration Verification

Job Number: F97561A **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025743.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100112\X025743.D Vial: 10
Acq On : 1 Oct 2012 3:01 pm Operator: fouads
Sample : icv1244-50 Inst : MSBNA05
Misc : op43151,sx1244,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	3.75
2		1,4-Dioxane	50.000	50.350	-0.7	98	0.05	1.20
3		N-nitrosodimethylamine	50.000	49.458	1.1	99	0.05	1.45
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	51.671	-3.3	103	0.00	3.61
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	52.589	-5.2	104	-0.01	3.61
11	P	2-Chlorophenol	50.000	53.744	-7.5	103	0.00	3.63
12		1,3-Dichlorobenzene	50.000	50.330	-0.7	98	0.00	3.71
13		1,4-Dichlorobenzene	50.000	50.652	-1.3	99	0.00	3.76
14		1,2-Dichlorobenzene	50.000	51.382	-2.8	102	0.00	3.89
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	49.887	0.2	97	0.00	4.03
17	P	bis(2-chloroisopropyl)eth	50.000	49.334	1.3	98	0.00	4.01
18	P	Acetophenone	50.000	52.701	-5.4	104	-0.01	4.08
19	P	N-Nitroso-di-n-propylamin	50.000	51.533	-3.1	99	-0.01	4.12
20	P	3&4-Methylphenol	100.000	100.052	-0.1	101	0.00	4.15
21	P	Hexachloroethane	50.000	50.716	-1.4	99	0.00	4.11
22	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00	4.68
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	51.984	-4.0	101	0.00	4.19
25	P	Isophorone	50.000	43.606	12.8	85	0.00	4.38
26	P	2-Nitrophenol	50.000	51.654	-3.3	100	0.00	4.42
27	P	2,4-Dimethylphenol	50.000	45.974	8.1	90	0.00	4.50
28	P	bis(2-Chloroethoxy)methan	50.000	52.156	-4.3	102	0.00	4.56
29		Benzoic Acid	100.000	104.831	-4.8	93	0.00	4.72
30	P	2,4-Dichlorophenol	50.000	51.622	-3.2	102	0.00	4.61
31		1,2,4-Trichlorobenzene	50.000	51.039	-2.1	101	0.00	4.65
32	P	Naphthalene	50.000	49.917	0.2	99	0.00	4.69
33	P	4-Chloroaniline		----------NA----------				
34		2,6-Dichlorophenol	50.000	53.657	-7.3	107	0.00	4.78
35	P	Hexachlorobutadiene	50.000	50.475	-1.0	99	0.00	4.85
36	P	Caprolactam	50.000	54.743	-9.5	113	-0.03	5.10
37	P	4-Chloro-3-methylphenol	50.000	51.575	-3.2	102	-0.01	5.24
38	P	2-Methylnaphthalene		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-ICV1244
Lab FileID: X025743.D

39		1-Methylnaphthalene	50.000	51.610	-3.2	102	0.00	5.37
40	P	1,2,4,5-Tetrachlorobenzen	50.000	50.280	-0.6	99	0.00	5.48
41	I	Acenaphthene-d10	40.000	40.000	0.0	102	0.00	6.44
42	P	Hexachlorocyclopentadiene	50.000	52.639	-5.3	102	0.00	5.50
43	P	2,4,6-Trichlorophenol	50.000	50.176	-0.4	102	0.00	5.61
44	P	2,4,5-Trichlorophenol	50.000	52.451	-4.9	106	-0.01	5.66
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	48.639	2.7	99	0.00	5.77
47	P	2-Chloronaphthalene	50.000	49.393	1.2	102	0.00	5.76
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	49.419	1.2	102	-0.02	6.25
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	51.629	-3.3	104	-0.02	6.31
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene	50.000	49.659	0.7	103	-0.01	6.24
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	53.222	-6.4	109	-0.01	6.48
57	P	2,4-Dinitrophenol	100.000	110.372	-10.4	94	-0.02	6.61
58	P	4-Nitrophenol	100.000	103.093	-3.1	105	0.00	6.85
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	50.758	-1.5	103	-0.02	6.83
61	P	2,3,5,6-Tetrachlorophenol	50.000	49.674	0.7	99	0.06	6.98
62	P	2,3,4,6-Tetrachlorophenol	50.000	50.298	-0.6	101	0.00	6.98
63	P	Diethylphthalate	50.000	51.021	-2.0	106	0.00	7.26
64	P	Fluorene	50.000	50.898	-1.8	104	0.00	7.18
65	P	4-Chlorophenyl-phenylethe	50.000	50.230	-0.5	103	0.00	7.24
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	104	0.00	8.62
68	P	4,6-Dinitro-2-methylpheno	100.000	114.714	-14.7	111	-0.02	7.42
69	P	n-Nitrosodiphenylamine	50.000	49.331	1.3	85	-0.02	7.46
70		1,2-Diphenylhydrazine	50.000	49.095	1.8	102	0.00	7.48
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether	50.000	50.404	-0.8	105	0.00	7.98
73	P	Hexachlorobenzene	50.000	49.907	0.2	103	0.00	8.15
74		Simazine		----------NA----------				
75	P	Atrazine	50.000	57.240	-14.5	114	-0.02	8.48
76	P	Pentachlorophenol	100.000	105.479	-5.5	99	0.00	8.50
77	P	Phenanthrene	50.000	52.123	-4.2	109	0.00	8.66
78	P	Anthracene	50.000	51.636	-3.3	106	0.00	8.74
79	P	Carbazole		----------NA----------				
80	P	Di-n-butylphthalate	50.000	49.704	0.6	103	0.00	10.01
81	P	Fluoranthene	50.000	50.317	-0.6	104	0.00	10.71
82	I	Chrysene-d12	40.000	40.000	0.0	104	0.00	13.36
83		Benzidine		----------NA----------				
84	P	Pyrene	50.000	53.579	-7.2	110	0.00	11.08
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate	50.000	51.532	-3.1	106	0.00	12.71
87	P	3,3'-Dichlorobenzidine		----------NA----------				
88	P	Benzo[a]anthracene	50.000	53.049	-6.1	110	-0.01	13.32
89	P	Chrysene	50.000	52.529	-5.1	109	0.00	13.40
90	P	bis(2-Ethylhexyl)phthalat	50.000	51.911	-3.8	106	0.00	13.96
91	I	Perylene-d12	40.000	40.000	0.0	106	0.00	15.79
92	P	Di-n-octylphthalate	50.000	52.600	-5.2	109	0.00	15.07
93	P	Benzo[b]fluoranthene	50.000	53.930	-7.9	119	-0.01	15.21
94	P	Benzo[k]fluoranthene	50.000	54.852	-9.7	115	-0.02	15.26

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-ICV1244
Lab FileID: X025743.D

95	P	Benzo[a]pyrene	50.000	50.638	-1.3	106	-0.02	15.69
96	P	Indeno[1,2,3-cd]pyrene	50.000	52.350	-4.7	112	-0.01	17.35
97	P	Dibenz[a,h]anthracene	50.000	52.716	-5.4	112	-0.02	17.42
98	P	Benzo[g,h,i]perylene	50.000	50.943	-1.9	108	-0.02	17.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X025739.D 8270d.m Tue Oct 02 08:58:20 2012

Initial Calibration Verification

Job Number: F97561A **Sample:** SX1244-ICV1244
Account: CSXT CSX Transportation **Lab FileID:** X025744.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\100112\X025744.D Vial: 11
Acq On : 1 Oct 2012 3:29 pm Operator: fouads
Sample : icv1244-50 Inst : MSBNA05
Misc : op43151,sx1244,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Oct 01 15:48:17 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	83	0.00	3.74
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	52.147	-4.3	87	0.00	1.37
5	S	2-Fluorophenol		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
6	P	Benzaldehyde	25.000	36.388	-45.6#	97	0.00	3.41
		---------- Amount	Calc.	%Drift	----------			
7		Aniline	50.000	47.265	5.5	78	0.00	3.54
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	51.968	-3.9	86	-0.01	3.90
16	P	2-Methylphenol		----------NA----------				
17	P	bis(2-chloroisopropyl)eth		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	N-Nitroso-di-n-propylamin		----------NA----------				
20	P	3&4-Methylphenol		----------NA----------				
21	P	Hexachloroethane		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	83	-0.01	4.67
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone	50.000	48.976	2.0	81	-0.02	4.36
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32	P	Naphthalene		----------NA----------				
33	P	4-Chloroaniline	50.000	51.183	-2.4	86	-0.01	4.77
34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	48.658	2.7	85	-0.01	5.27

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-ICV1244
Lab FileID: X025744.D

39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	82	-0.01	6.44
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	53.343	-6.7	87	-0.01	5.95
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline	50.000	49.209	1.6	81	-0.03	6.47
56	P	Acenaphthene		----------NA----------				
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
59	P	Dibenzofuran	50.000	53.510	-7.0	88	-0.01	6.70
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	50.521	-1.0	82	-0.06	7.34
67	I	Phenanthrene-d10	40.000	40.000	0.0	79	-0.02	8.61
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
69	P	n-Nitrosodiphenylamine		----------NA----------				
70		1,2-Diphenylhydrazine		----------NA----------				
71	S	2,4,6-Tribromophenol		----------NA----------				
72	P	4-Bromophenyl-phenylether		----------NA----------				
73	P	Hexachlorobenzene		----------NA----------				
74		Simazine	50.000	31.000	38.0#	49	-0.07	8.37
75	P	Atrazine		----------NA----------				
76	P	Pentachlorophenol		----------NA----------				
77	P	Phenanthrene		----------NA----------				
78	P	Anthracene		----------NA----------				
79	P	Carbazole	50.000	52.253	-4.5	83	-0.01	9.09
80	P	Di-n-butylphthalate		----------NA----------				
81	P	Fluoranthene		----------NA----------				
82	I	Chrysene-d12	40.000	40.000	0.0	74	-0.03	13.34
83		Benzidine	50.000	122.463	-144.9#	181	0.00	11.13
84	P	Pyrene		----------NA----------				
85	S	Terphenyl-d14		----------NA----------				
86	P	Butylbenzylphthalate		----------NA----------				
87	P	3,3'-Dichlorobenzidine	50.000	88.760	-77.5#	132	-0.01	13.46
88	P	Benzo[a]anthracene		----------NA----------				
89	P	Chrysene		----------NA----------				
90	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
91	I	Perylene-d12	40.000	40.000	0.0	74	-0.03	15.77
92	P	Di-n-octylphthalate		----------NA----------				
93	P	Benzo[b]fluoranthene		----------NA----------				
94	P	Benzo[k]fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1244-ICV1244
Lab FileID: X025744.D

```
 95 P   Benzo[a]pyrene                      ----------NA----------
 96 P   Indeno[1,2,3-cd]pyrene              ----------NA----------
 97 P   Dibenz[a,h]anthracene               ----------NA----------
 98 P   Benzo[g,h,i]perylene                ----------NA----------
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range                 SPCC's out = 0  CCC's out = 0
    X025739.D  8270d.m          Tue Oct 02 09:05:43 2012
```

Continuing Calibration Summary

Job Number: F97561A **Sample:** SX1251-CC1244
Account: CSXT CSX Transportation **Lab FileID:** X025911.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\101012\X025911.D Vial: 2
Acq On : 10 Oct 2012 11:36 am Operator: fouads
Sample : cc1244-50 Inst : MSBNA05
Misc : op43151,sx1251,30.2,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Oct 11 08:09:22 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	3.53
2		1,4-Dioxane	0.524	0.628	-19.8	132	-0.04	0.97
3		N-nitrosodimethylamine	0.854	0.982	-15.0	129	-0.05	1.18
4		Pyridine	1.434	1.740	-21.3#	134	-0.05	1.16
5	S	2-Fluorophenol	1.238	1.345	-8.6	121	-0.03	2.55
6	P	Benzaldehyde	0.735	0.753	-2.4	140	-0.03	3.19
7		Aniline	2.033	2.177	-7.1	119	-0.01	3.33
8	P	bis(2-Chloroethyl)ether	1.174	1.099	6.4	106	0.00	3.40
9	S	Phenol-d5	1.518	1.524	-0.4	114	0.00	3.40
10	P	Phenol	1.583	1.548	2.2	109	0.00	3.41
11	P	2-Chlorophenol	1.349	1.208	10.5	97	-0.01	3.40
12		1,3-Dichlorobenzene	1.513	1.598	-5.6	116	0.00	3.49
13		1,4-Dichlorobenzene	1.517	1.552	-2.3	113	0.00	3.54
14		1,2-Dichlorobenzene	1.434	1.495	-4.3	117	0.00	3.67
15		Benzyl alcohol	0.917	0.972	-6.0	117	0.01	3.70
16	P	2-Methylphenol	1.276	1.329	-4.2	114	0.03	3.82
17	P	bis(2-chloroisopropyl)eth	2.425	2.660	-9.7	123	0.03	3.80
18	P	Acetophenone	1.850	1.864	-0.8	112	0.00	3.87
19	P	N-Nitroso-di-n-propylamin	0.943	0.993	-5.3	114	0.04	3.92
20	P	3&4-Methylphenol	1.344	1.405	-4.5	115	0.04	3.94
21	P	Hexachloroethane	0.621	0.661	-6.4	116	0.03	3.89
22	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	4.46
23	S	Nitrobenzene-d5	0.374	0.409	-9.4	119	-0.02	3.97
24	P	Nitrobenzene	0.367	0.394	-7.4	115	-0.02	3.99
25	P	Isophorone	0.653	0.715	-9.5	118	0.00	4.17
26	P	2-Nitrophenol	0.209	0.228	-9.1	117	0.00	4.22
27	P	2,4-Dimethylphenol	0.350	0.366	-4.6	113	0.00	4.31
28	P	bis(2-Chloroethoxy)methan	0.394	0.432	-9.6	118	0.00	4.36
29		Benzoic Acid	0.328	0.356	-8.5	114	0.02	4.50
30	P	2,4-Dichlorophenol	0.300	0.316	-5.3	114	0.00	4.40
31		1,2,4-Trichlorobenzene	0.325	0.345	-6.2	115	0.00	4.44
32	P	Naphthalene	1.012	1.015	-0.3	109	0.00	4.48
33	P	4-Chloroaniline	0.424	0.415	2.1	108	0.00	4.56
34		2,6-Dichlorophenol	0.292	0.296	-1.4	111	0.00	4.56
35	P	Hexachlorobutadiene	0.176	0.184	-4.5	113	0.00	4.63
36	P	Caprolactam	0.115	0.120	-4.3	119	0.00	4.88
37	P	4-Chloro-3-methylphenol	0.300	0.318	-6.0	115	-0.01	4.99
38	P	2-Methylnaphthalene	0.708	0.982	-38.7#	159	-0.02	5.01
39		1-Methylnaphthalene	0.622	0.655	-5.3	115	-0.02	5.10
40	P	1,2,4,5-Tetrachlorobenzen	0.313	0.331	-5.8	115	-0.03	5.20

Continuing Calibration Summary

Job Number: F97561A **Sample:** SX1251-CC1244
Account: CSXT CSX Transportation **Lab FileID:** X025911.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

41	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	6.10
42	P	Hexachlorocyclopentadiene	0.367	0.404	-10.1	115	0.01	5.23
43	P	2,4,6-Trichlorophenol	0.414	0.440	-6.3	116	0.01	5.33
44	P	2,4,5-Trichlorophenol	0.429	0.456	-6.3	115	0.00	5.37
45	S	2-Fluorobiphenyl	1.361	1.414	-3.9	114	0.01	5.40
46	P	1,1'-Biphenyl	1.476	1.479	-0.2	109	0.01	5.48
47	P	2-Chloronaphthalene	1.157	1.232	-6.5	118	0.00	5.46
48	P	2-Nitroaniline	0.402	0.451	-12.2	122	0.00	5.64
49		p-Dinitrobenzene	0.248	0.279	-12.5	121	0.00	5.79
50	P	Dimethylphthalate	1.242	1.339	-7.8	120	0.00	5.94
51		m-Dinitrobenzene	0.217	0.235	-8.3	120	0.00	5.92
52	P	2,6-Dinitrotoluene	0.307	0.330	-7.5	116	0.00	6.00
53		o-Dinitrobenzene	0.242	0.278	-14.9	125	0.00	6.06
54	P	Acenaphthylene	1.850	1.941	-4.9	117	0.00	5.91
55	P	3-Nitroaniline	0.363	0.365	-0.6	110	0.00	6.15
56	P	Acenaphthene	1.149	1.153	-0.3	111	0.00	6.14
57	P	2,4-Dinitrophenol	0.208	0.242	-16.3	116	0.00	6.27
58	P	4-Nitrophenol	0.173	0.180	-4.0	113	0.00	6.48
59	P	Dibenzofuran	1.640	1.686	-2.8	113	0.00	6.34
60	P	2,4-Dinitrotoluene	0.388	0.405	-4.4	114	0.00	6.48
61	P	2,3,5,6-Tetrachlorophenol	0.320	0.351	-9.7	117	0.00	6.55
62	P	2,3,4,6-Tetrachlorophenol	0.316	0.339	-7.3	116	0.00	6.61
63	P	Diethylphthalate	1.262	1.332	-5.5	118	0.02	6.89
64	P	Fluorene	1.293	1.343	-3.9	114	0.00	6.80
65	P	4-Chlorophenyl-phenylethe	0.592	0.618	-4.4	115	0.01	6.87
66	P	4-Nitroaniline	0.347	0.364	-4.9	114	0.00	7.00
67	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	8.18
68	P	4,6-Dinitro-2-methylpheno	0.156	0.176	-12.8	114	-0.02	7.05
69	P	n-Nitrosodiphenylamine	0.572	0.584	-2.1	110	-0.01	7.09
70		1,2-Diphenylhydrazine	0.903	0.974	-7.9	116	-0.01	7.09
71	S	2,4,6-Tribromophenol	0.106	0.117	-10.4	116	-0.02	7.19
72	P	4-Bromophenyl-phenylether	0.202	0.218	-7.9	116	0.00	7.57
73	P	Hexachlorobenzene	0.217	0.237	-9.2	117	0.00	7.73
74		Simazine	0.115	0.090	21.7#	85	0.00	8.01
75	P	Atrazine	0.209	0.207	1.0	102	0.02	8.08
76	P	Pentachlorophenol	0.145	0.165	-13.8	117	0.00	8.07
77	P	Phenanthrene	1.079	1.117	-3.5	112	0.00	8.23
78	P	Anthracene	1.108	1.154	-4.2	111	0.00	8.30
79	P	Carbazole	1.050	1.065	-1.4	110	0.02	8.65
80	P	Di-n-butylphthalate	1.207	1.232	-2.1	109	0.08	9.59
81	P	Fluoranthene	1.015	1.040	-2.5	110	0.00	10.24
82	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	12.85
83		Benzidine	0.724	0.714	1.4	99	0.00	10.65
84	P	Pyrene	1.479	1.629	-10.1	110	0.00	10.60
85	S	Terphenyl-d14	0.909	0.993	-9.2	109	0.00	11.12
86	P	Butylbenzylphthalate	0.635	0.669	-5.4	105	0.00	12.25
87	P	3,3'-Dichlorobenzidine	0.414	0.453	-9.4	110	0.02	12.99
88	P	Benzo[a]anthracene	1.108	1.169	-5.5	106	0.00	12.82
89	P	Chrysene	1.053	1.106	-5.0	106	0.00	12.90
90	P	bis(2-Ethylhexyl)phthalat	0.840	0.864	-2.9	102	0.00	13.51
91	I	Perylene-d12	1.000	1.000	0.0	100	0.00	15.27
92	P	Di-n-octylphthalate	1.578	1.627	-3.1	101	0.04	14.61
93	P	Benzo[b]fluoranthene	1.186	1.279	-7.8	112	-0.02	14.69
94	P	Benzo[k]fluoranthene	1.060	1.135	-7.1	106	-0.02	14.74
95	P	Benzo[a]pyrene	1.080	1.159	-7.3	106	-0.01	15.17
96	P	Indeno[1,2,3-cd]pyrene	0.850	0.887	-4.4	105	0.04	16.82
97	P	Dibenz[a,h]anthracene	0.847	0.859	-1.4	102	0.04	16.90

Continuing Calibration Summary

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX1251-CC1244
Lab FileID: X025911.D

98	P	Benzo[g,h,i]perylene	0.946	0.990	-4.7	104	0.00	17.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X025739.D 8270d.m Thu Oct 11 11:39:44 2012

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:06	MA10205-STD1	1		STDA
06:10	MA10205-STD2	1		STDB
06:15	MA10205-STD3	1		STDC
06:19	MA10205-STD4	1		STDD
06:28	MA10205-HSTD1	1		
06:35	MA10205-ICV1	1		
06:41	MA10205-ICB1	1		
06:45	MA10205-CRIA1	1		
06:53	MA10205-ICSA1	1		
07:01	MA10205-ICSAB1	1		
07:10	MA10205-CCV1	1		
07:21	MA10205-CCB1	1		
07:37	MP23825-MB1	1		
07:41	MP23825-B1	1		
07:49	MP23825-D1	1		
07:54	MP23825-SD1	5		
07:58	MP23825-PS1	1		
08:02	MP23825-S1	1		
08:07	MP23825-S2	1		
08:11	ZZZZZZ	1		
08:20	MA10205-CCV2	1		
08:24	MA10205-CCB2	1		
08:28	ZZZZZZ	1		
08:32	ZZZZZZ	1		
08:41	ZZZZZZ	1		
08:45	ZZZZZZ	1		
08:53	ZZZZZZ	1		
08:58	ZZZZZZ	1		
09:06	ZZZZZZ	1		
09:10	MA10205-CCV3	1		
09:14	MA10205-CCB3	1		
09:19	ZZZZZZ	1		
09:27	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:40	ZZZZZZ	1		
09:44	ZZZZZZ	1		
09:48	MP23826-MB1	1		
09:52	MP23826-B1	1		
09:56	F97564-1	1		(sample used for QC only; not part of login F97561A)
10:01	MA10205-CCV4	1		
10:04	MA10205-CCB4	1		
10:09	MP23826-D1	1		
10:13	MP23826-SD1	5		
10:17	MP23826-PS1	1		
10:21	MP23826-S1	1		
10:26	MP23826-S2	1		
10:34	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:51	MA10205-CCV5	1		
10:55	MA10205-CCB5	1		
10:59	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:42	MA10205-CCV6	1		
11:46	MA10205-CCB6	1		
11:59	ZZZZZZ	1		
12:04	MP23828-MB1	1		
12:08	MP23828-B1	1		
12:12	F97523-4F	1		(sample used for QC only; not part of login F97561A)
12:17	MP23828-D1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:21	MP23828-SD1	5		
12:26	MP23828-PS1	1		
12:30	MP23828-S1	1		
12:35	MA10205-CCV7	1		
12:39	MA10205-CCB7	1		
13:08	MA10205-CCV8	1		
13:17	MA10205-CCB8	1		
13:23	MP23828-S2	1		
13:27	F97553-5	1		(sample used for QC only; not part of login F97561A)
13:32	MP23828-D2	1		
13:36	MP23828-SD2	5		
13:40	MP23828-PS2	1		
13:45	MP23828-S3	1		
13:49	MP23828-S4	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:06	MA10205-CCV9	1		
14:10	MA10205-CCB9	1		
14:14	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:41	F97561-4	1		
14:45	F97561-5	1		
14:49	F97561-6	1		
14:54	F97561-7	1		
14:58	MA10205-CCV10	1		
15:02	MA10205-CCB10	1		
15:06	ZZZZZZ	1		
15:11	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:15	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:29	MP23828-MB2A	1		
15:33	MP23828-MB3A	1		
15:38	MP23832-MB1	1		
15:42	MP23832-B1	1		
15:46	F97553-5F	1		(sample used for QC only; not part of login F97561A)
15:50	MP23832-D1	1		
15:55	MA10205-CCV11	1		
15:59	MA10205-CCB11	1		
16:03	MP23832-SD1	5		
16:07	MP23832-PS1	1		
16:12	MP23832-S1	1		
16:16	MP23832-S2	1		
16:20	F97561-2	1		(sample used for QC only; not part of login F97561A)
16:24	MP23832-D2	1		
16:29	MP23832-SD2	1		
16:33	MP23832-PS2	1		
16:37	MP23832-S3	1		
16:41	MP23832-S4	1		
16:45	MA10205-CCV12	1		
16:49	MA10205-CCB12	1		
16:54	F97561-4F	1		
16:58	F97561-5F	1		
17:03	F97561-6F	1		
17:07	F97561-7F	1		
17:11	ZZZZZZ	1		
17:16	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:25	ZZZZZZ	1		
17:29	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:38	MA10205-CCV13	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:42	MA10205-CCB13	1		
17:46	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	1		
17:59	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:21	MP23832-MB2A	1		
---------->	Last reportable sample/prep for job F97561A			
18:25	MA10205-CRIA2	1		
18:29	MA10205-CCV14	1		
18:33	MA10205-CCB14	1		
18:38	MA10205-ICSA2	1		
18:42	MA10205-ICSAB2	1		
18:46	MA10205-CCV15	1		
18:50	MA10205-CCB15	1		
---------->	Last reportable CCB for job F97561A			

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:06	MA10205-STD1	3958	32784	6162	2132
06:10	MA10205-STD2	3955	32622	6140	2001
06:15	MA10205-STD3	3825	31615	6108	1802
06:19	MA10205-STD4	3671	30450	5995	1644
06:28	MA10205-HSTD1	3709	30811	6024	1656
06:35	MA10205-ICV1	3822	31770	6171	1812
06:41	MA10205-ICB1	3967 R	32905 R	6175 R	2140 R
06:45	MA10205-CRIA1	3894	32153	6110	2044
06:53	MA10205-ICSA1	3499	28258	5861	1572
07:01	MA10205-ICSAB1	3483	28249	5779	1539
07:10	MA10205-CCV1	3814	31256	5936	1787
07:21	MA10205-CCB1	3906	32390	5997	2112
07:37	MP23825-MB1	3901	32574	6097	2127
07:41	MP23825-B1	3823	31778	6075	1901
07:49	MP23825-D1	3773	31598	6232	1755
07:54	MP23825-SD1	3858	32282	6166	1959
07:58	MP23825-PS1	3745	31215	6212	1727
08:02	MP23825-S1	3699	30799	6198	1681
08:07	MP23825-S2	3717	31024	6207	1677
08:11	ZZZZZZ	4991	41479	8080	1795
08:20	MA10205-CCV2	3751	31677	5982	1823
08:24	MA10205-CCB2	3888	32845	6082	2169
08:28	ZZZZZZ	5005 !	41715 !	8128 !	1755
08:32	ZZZZZZ	5343 !	44368 !	8555 !	1787
08:41	ZZZZZZ	4218	34771	6736	1829
08:45	ZZZZZZ	5025 !	41412 !	7763 !	1926
08:53	ZZZZZZ	4268	34578	7028	1589
08:58	ZZZZZZ	4559	37577	6998	1992
09:06	ZZZZZZ	4422	35690	7090	1689
09:10	MA10205-CCV3	3808	31817	5972	1822
09:14	MA10205-CCB3	3905	32695	6004	2146
09:19	ZZZZZZ	4520	37216	6881	2026
09:27	ZZZZZZ	4431	36100	7002	1769

INTERNAL STANDARD SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:40	ZZZZZZ	4882	39993	7659	1842
09:44	ZZZZZZ	4458	37201	6894	2022
09:48	MP23826-MB1	3917	32996	6110	2142
09:52	MP23826-B1	3827	32276	6042	1897
09:56	F97564-1	4272	35418	6569	1917
10:01	MA10205-CCV4	3886	32572	6134	1844
10:04	MA10205-CCB4	3945	33707	6196	2172
10:09	MP23826-D1	4241	35110	6587	1914
10:13	MP23826-SD1	4106	34203	6270	2070
10:17	MP23826-PS1	4223	34969	6531	1877
10:21	MP23826-S1	4130	33914	6415	1817
10:26	MP23826-S2	4173	34348	6490	1810
10:34	ZZZZZZ	4413	36733	7040	1860
10:47	ZZZZZZ	4277	35211	7029	1593
10:51	MA10205-CCV5	3869	32631	6090	1831
10:55	MA10205-CCB5	3994	33606	6092	2168
10:59	ZZZZZZ	4310	35710	6579	2002
11:03	ZZZZZZ	3957	33207	6899	1428
11:08	ZZZZZZ	4281	35797	6570	1997
11:12	ZZZZZZ	4106	34173	6329	2016
11:16	ZZZZZZ	3990	33201	6216	1938
11:20	ZZZZZZ	No results reported for the elements associated with this internal standard.			
11:24	ZZZZZZ	No results reported for the elements associated with this internal standard.			
11:29	ZZZZZZ	3700	32095	5927	1771
11:33	ZZZZZZ	66807 !	530990 !	109970 !	1330
11:37	ZZZZZZ	4961	40527	7744	1675
11:42	MA10205-CCV6	3856	32437	5854	1834
11:46	MA10205-CCB6	3959	33616	5908	2165
11:59	ZZZZZZ	3302	28599	6136	1080
12:04	MP23828-MB1	3926	33390	5808	2140
12:08	MP23828-B1	3847	32310	5734	1913
12:12	F97523-4F	3070	26396	5431	1356
12:17	MP23828-D1	2989	25888	5691	1333

INTERNAL STANDARD SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:21	MP23828-SD1	3473	28869	6185	1679
12:26	MP23828-PS1	3041	26251	5795	1329
12:30	MP23828-S1	3141	27104	5823	1312
12:35	MA10205-CCV7	3718	33777	6468	1825
12:39	MA10205-CCB7	3826	34605	6523	2171
13:08	MA10205-CCV8	3719	33872	6480	1837
13:17	MA10205-CCB8	3870	35398	6553	2207
13:23	MP23828-S2	3069	27268	5849	1312
13:27	F97553-5	3339	30399	6263	1680
13:32	MP23828-D2	3321	30385	6279	1680
13:36	MP23828-SD2	3564	32153	6457	1916
13:40	MP23828-PS2	3335	30550	6293	1662
13:45	MP23828-S3	3418	31369	6311	1634
13:49	MP23828-S4	3409	31212	6284	1629
13:53	ZZZZZZ	3274	29676	6178	1617
13:57	ZZZZZZ	3257	29760	6205	1618
14:02	ZZZZZZ	3471	32349	6377	1853
14:06	MA10205-CCV9	3615	33433	6400	1809
14:10	MA10205-CCB9	3747	34895	6517	2177
14:14	ZZZZZZ	3084	27359	5969	1456
14:19	ZZZZZZ	3472	31902	6383	1839
14:23	ZZZZZZ	3184	28657	6125	1559
14:28	ZZZZZZ	3452	32235	6351	1835
14:32	ZZZZZZ	3427	31371	6385	1831
14:36	ZZZZZZ	3231	30222	6105	1637
14:41	F97561-4	3725	34818	6529	2107
14:45	F97561-5	3459	31469	6325	1751
14:49	F97561-6	3439	31797	6376	1775
14:54	F97561-7	3204	29187	6201	1571
14:58	MA10205-CCV10	3599	33340	6490	1798
15:02	MA10205-CCB10	3773	34441	6491	2150
15:06	ZZZZZZ	3141	27635	5968	1464
15:11	ZZZZZZ	3485	32022	6362	1781

INTERNAL STANDARD SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:15	ZZZZZZ	3547	32828	6415	1803
15:19	ZZZZZZ	3136	27717	6079	1452
15:29	MP23828-MB2A	3737	34789	6659	2134
15:33	MP23828-MB3A	3737	34966	6649	2139
15:38	MP23832-MB1	3732	34795	6636	2140
15:42	MP23832-B1	3631	33434	6499	1878
15:46	F97553-5F	3309	29832	6281	1627
15:50	MP23832-D1	3368	30334	6343	1647
15:55	MA10205-CCV11	3710	33830	6445	1800
15:59	MA10205-CCB11	3803	34790	6528	2148
16:03	MP23832-SD1	3608	32388	6450	1879
16:07	MP23832-PS1	3368	30214	6158	1626
16:12	MP23832-S1	3359	31001	6392	1574
16:16	MP23832-S2	3375	31133	6415	1592
16:20	F97561-2	3417	31500	6454	1724
16:24	MP23832-D2	3394	31465	6467	1701
16:29	MP23832-SD2	3617	33515	6648	1951
16:33	MP23832-PS2	3441	31812	6499	1717
16:37	MP23832-S3	3360	31690	6528	1644
16:41	MP23832-S4	3404	32052	6495	1653
16:45	MA10205-CCV12	3505	33742	6686	1774
16:49	MA10205-CCB12	3629	34911	6814	2133
16:54	F97561-4F	3293	30970	6539	1707
16:58	F97561-5F	3061	28362	6352	1487
17:03	F97561-6F	3357	31748	6515	1766
17:07	F97561-7F	3158	29600	6390	1576
17:11	ZZZZZZ	3287	31824	6602	1765
17:16	ZZZZZZ	3315	32413	6631	1807
17:20	ZZZZZZ	2947	27442	6217	1417
17:25	ZZZZZZ	3217	29763	6618	1621
17:29	ZZZZZZ	3114	28232	6265	1489
17:33	ZZZZZZ	3300	31048	6352	1743
17:38	MA10205-CCV13	3601	33708	6526	1800

INTERNAL STANDARD SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
Analyst: LM Run ID: MA10205
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:42	MA10205-CCB13	3703	34845	6576	2154
17:46	ZZZZZZ	3414	31942	6441	1743
17:50	ZZZZZZ	3029	27777	6037	1419
17:55	ZZZZZZ	3269	29785	6295	1640
17:59	ZZZZZZ	3423	31854	6338	1802
18:04	ZZZZZZ	3268	30008	6251	1630
18:08	ZZZZZZ	3472	32498	6381	1827
18:12	ZZZZZZ	3474	32429	6377	1829
18:16	ZZZZZZ	3441	32312	6387	1836
18:21	MP23832-MB2A	3698	34897	6531	2157
18:25	MA10205-CRIA2	3720	34430	6551	2086
18:29	MA10205-CCV14	3609	33526	6459	1810
18:33	MA10205-CCB14	3737	34907	6535	2172
18:38	MA10205-ICSA2	3295	30109	6128	1555
18:42	MA10205-ICSAB2	3292	30008	6116	1535
18:46	MA10205-CCV15	3599	33559	6391	1812
18:50	MA10205-CCB15	3729	34771	6485	2170

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time:			06:41		07:21		08:24		09:14	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	-0.40	<10	-0.10	<10	0.10	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	-0.10	<5.0	0.20	<5.0	1.0	<5.0	0.70	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time: / Sample ID:			10:04 CCB4		10:55 CCB5		11:46 CCB6		12:39 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	0.30	<10	-0.60	<10	0.60	<10	-0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.20	<5.0	0.30	<5.0	0.20	<5.0	-0.90	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time:			13:17		14:10		15:02		15:59	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	1.0	<10	1.4	<10	1.5	<10	1.0	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.0	<5.0	0.40	<5.0	0.30	<5.0	0.60	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA10205 Units: ug/l

Time: / Sample ID:			16:49 CCB12		17:42 CCB13		18:33 CCB14		18:50 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	15	anr							
Antimony	6.0	1.3	anr							
Arsenic	10	1.6	1.4	<10	1.6	<10	1.0	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.5	anr							
Cadmium	5.0	.5	anr							
Calcium	1000	50	anr							
Chromium	10	1.8	anr							
Cobalt	50	.5	anr							
Copper	25	1	anr							
Iron	300	29	anr							
Lead	5.0	1.1	0.50	<5.0	-0.10	<5.0	0.30	<5.0	0.40	<5.0
Magnesium	5000	74	anr							
Manganese	15	.7	anr							
Molybdenum	50	.6	anr							
Nickel	40	.5	anr							
Potassium	10000	200	anr							
Selenium	10	2	anr							
Silver	10	.5	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.3	anr							
Tin	50	.7								
Titanium	10	.9								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		06:35			07:10			08:20	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2010	100.5	2000	2000	100.0	2000	2080	104.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	2010	100.5	2000	1950	97.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		09:10			10:01			10:51	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2060	103.0	2000	2020	101.0	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1950	97.5	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		11:42			12:35			13:08	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2080	104.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	1870	93.5	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		14:06			14:58			15:55	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1960	98.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		16:45			17:38			18:29	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2030	101.5	2000	2020	101.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1920	96.0	2000	1940	97.0	2000	1930	96.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA10205 Units: ug/l

Time:		18:46	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2000	2040	102.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	1940	97.0
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA10205 Units: ug/l

Time:		06:28	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4060	101.5
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA10205 Units: ug/l

Time:			06:45		18:25	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	10.2	102.0	11.7	117.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	5.3	106.0	4.9	98.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB100512M1.ICP Date Analyzed: 10/05/12 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA10205 Units: ug/l

Time:			06:53		07:01		18:38		18:42	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	505000	101.0	517000	103.4	508000	101.6	517000	103.4
Antimony		1000	0.0		1010	101.0	3.2		1030	103.0
Arsenic		1000	0.0		1030	103.0	4.1		1030	103.0
Barium		500	0.40		473	94.6	0.40		484	96.8
Beryllium		500	-0.20		459	91.8	-0.20		457	91.4
Cadmium		1000	0.50		864	86.4	2.0		830	83.0
Calcium	500000	500000	477000	95.4	488000	97.6	465000	93.0	467000	93.4
Chromium		500	0.40		470	94.0	-0.10		453	90.6
Cobalt		500	0.10		430	86.0	0.50		416	83.2
Copper		500	0.0		510	102.0	2.8		526	105.2
Iron	200000	200000	179000	89.5	184000	92.0	179000	89.5	182000	91.0
Lead		1000	-0.10		879	87.9	-9.7		822	82.2
Magnesium	500000	500000	515000	103.0	522000	104.4	510000	102.0	507000	101.4
Manganese		500	0.20		453	90.6	0.0		449	89.8
Molybdenum		1000	0.50		936	93.6	0.70		938	93.8
Nickel		1000	0.0		842	84.2	1.1		831	83.1
Potassium			-44		-25		-34		-16	
Selenium		1000	0.0		1000	100.0	2.5		1000	100.0
Silver		1000	-0.80		908	90.8	-1.0		917	91.7
Sodium			80.2		94.6		-54		-52	
Strontium		1000	3.9		1010	101.0	3.3		1030	103.0
Thallium		1000	0.90		951	95.1	-1.0		941	94.1
Tin		1000	-0.90		865	86.5	0.10		836	83.6
Titanium		1000	-0.60		993	99.3	-0.20		1010	101.0
Vanadium		500	0.10		442	88.4	0.70		435	87.0
Zinc		1000	3.2		861	86.1	3.5		816	81.6

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/05/12		10/05/12		10/05/12	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	15	15						
Antimony	6.0	1.3	1.3						
Arsenic	10	1.6	2.5	-1.5	<10	0.20	<10	0.0	<10
Barium	200	1	1						
Beryllium	4.0	.5	.5						
Cadmium	5.0	.5	.5						
Calcium	1000	50	50						
Chromium	10	1.8	2						
Cobalt	50	.5	.5						
Copper	25	1	1						
Iron	300	29	29						
Lead	5.0	1.1	1.1	-0.30	<5.0	-0.10	<5.0	-0.30	<5.0
Magnesium	5000	74	74						
Manganese	15	.7	.7						
Molybdenum	50	.6	1						
Nickel	40	.5	.5						
Potassium	10000	200	200						
Selenium	10	2	2						
Silver	10	.5	.5						
Sodium	10000	500	500						
Strontium	10	.5	.5						
Thallium	10	1.3	1.3						
Tin	50	.7	1.8						
Titanium	10	.9	1						
Vanadium	50	.5	1						
Zinc	20	3	5						

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12					10/05/12	
Metal	F97523-4F Original	DUP	RPD	QC Limits	F97523-4F Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	2330	2000	116.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	489	500	97.8	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/05/12

Metal	F97523-4F Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.0	2180	2000	109.0	6.7	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	0.0	493	500	98.6	0.8	20
Magnesium	anr					
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	2020	2000	101.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	475	500	95.0	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12				10/05/12	
Metal	F97523-4F Original	SDL 1:5	%DIF	QC Limits	F97553-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Barium	anr							
Beryllium	anr							
Cadmium	anr							
Calcium	anr							
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron	anr							
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium	anr							
Manganese	anr							
Molybdenum	anr							
Nickel	anr							
Potassium	anr							
Selenium	anr							
Silver	anr							
Sodium	anr							
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	anr							

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97523-4F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	117.8	0.2	5	100	117.8	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	42.7	0.2	2.5	50	85.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23828
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97553-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	110	0.2	5	100	110.0	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	44.8	0.2	2.5	50	89.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23828: F97561-4, F97561-5, F97561-6, F97561-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					10/05/12		10/05/12
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	15				
Antimony	6.0	1.3	1.3				
Arsenic	10	1.6	2.5	-0.30	<10	0.20	<10
Barium	200	1	1				
Beryllium	4.0	.5	.5				
Cadmium	5.0	.5	.5				
Calcium	1000	50	50				
Chromium	10	1.8	2				
Cobalt	50	.5	.5				
Copper	25	1	1				
Iron	300	29	29				
Lead	5.0	1.1	1.1	-0.40	<5.0	-0.20	<5.0
Magnesium	5000	74	74				
Manganese	15	.7	.7				
Molybdenum	50	.6	1				
Nickel	40	.5	.5				
Potassium	10000	200	200				
Selenium	10	2	2				
Silver	10	.5	.5				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.3	1.3				
Tin	50	.7	1.8				
Titanium	10	.9	1				
Vanadium	50	.5	1				
Zinc	20	3	5				

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12					10/05/12	
Metal	F97561-2 Original	DUP	RPD	QC Limits	F97561-2 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	2090	2000	104.5	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	475	500	95.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/05/12

Metal	F97561-2 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	2020	2000	101.0	3.4	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	0.0	466	500	93.2	1.9	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1940	2000	97.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	470	500	94.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/05/12				10/05/12	
Metal	F97553-5F Original	SDL 1:5	%DIF	QC Limits	F97561-2 Original	SDL 1:1	%DIF	QC Limits
Aluminum								
Antimony								
Arsenic	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0.00	0.00	NC	0-10	0.00	0.00	NC	0-10
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97553-5F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	109.7	0.2	5	100	109.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	46.3	0.2	2.5	50	92.6	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: F97561A
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP23832
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/05/12

Metal	Sample ml	Final ml	F97561-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	0	0	105.7	0.2	5	100	105.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	0	0	45	0.2	2.5	50	90.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP23832: F97561-4F, F97561-5F, F97561-6F, F97561-7F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 10/01/12

Analyte	IDL ug/l
Aluminum	15
Antimony	1.3
Arsenic	1.6
Barium	1
Beryllium	.5
Cadmium	.5
Calcium	50
Chromium	1.8
Cobalt	.5
Copper	1
Iron	29
Lead	1.1
Magnesium	74
Manganese	.7
Molybdenum	.6
Nickel	.5
Potassium	200
Selenium	2
Silicon	5
Silver	.5
Sodium	500
Strontium	.5
Thallium	1.3
Tin	.7
Titanium	.9
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA10205

Instrument Linear Ranges

Job Number: F97561A
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA10205

Southeast
ACCUTEST
LABORATORIES

10/22/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97600

Sampling Date: 10/03/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **118**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

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5.1: Chain of Custody 111

Sample Summary

CSX Transportation

Job No: F97600

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97600-1	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97600-2	10/03/12	15:45	EDWK	10/04/12	AQ	Ground Water	MW-31C (100312)
F97600-2F	10/03/12	15:45	EDWK	10/04/12	AQ	Groundwater Filtered	MW-31C (100312)
F97600-3	10/03/12	16:40	EDWK	10/04/12	AQ	Ground Water	MW-31B (100312)
F97600-3F	10/03/12	16:40	EDWK	10/04/12	AQ	Groundwater Filtered	MW-31B (100312)
F97600-4	10/03/12	16:35	EDWK	10/04/12	AQ	Ground Water	MW-25A (100312)
F97600-5	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97600-6	10/03/12	13:15	EDWK	10/04/12	AQ	Ground Water	MW-30A (100312)
F97600-6F	10/03/12	13:15	EDWK	10/04/12	AQ	Groundwater Filtered	MW-30A (100312)
F97600-7	10/03/12	13:55	EDWK	10/04/12	AQ	Ground Water	MW-30B (100312)
F97600-8	10/03/12	15:05	EDWK	10/04/12	AQ	Ground Water	MW-55A (100312)
F97600-9	10/03/12	15:55	EDWK	10/04/12	AQ	Ground Water	MW-55B (100312)
F97600-10	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK

Sample Summary
(continued)

CSX Transportation

Job No: F97600

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97600-11	10/03/12	14:05	EDWK	10/04/12	AQ	Ground Water	MW-32C (100312)
F97600-11D	10/03/12	14:05	EDWK	10/04/12	AQ	Water Dup/MSD	MW-32C (100312)
F97600-11F	10/03/12	14:05	EDWK	10/04/12	AQ	Groundwater Filtered	MW-32C (100312)
F97600-11FD	10/03/12	14:05	EDWK	10/04/12	AQ	Groundwater Filtered	MW-32C (100312)
F97600-11FS	10/03/12	14:05	EDWK	10/04/12	AQ	Groundwater Filtered	MW-32C (100312)
F97600-11S	10/03/12	14:05	EDWK	10/04/12	AQ	Water Matrix Spike	MW-32C (100312)
F97600-12	10/03/12	14:40	EDWK	10/04/12	AQ	Ground Water	MW-32B (100312)
F97600-12F	10/03/12	14:40	EDWK	10/04/12	AQ	Groundwater Filtered	MW-32B (100312)
F97600-17	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97600-18	10/03/12	13:15	EDWK	10/04/12	AQ	Ground Water	MW-32A (100312)
F97600-18F	10/03/12	13:15	EDWK	10/04/12	AQ	Groundwater Filtered	MW-32A (100312)
F97600-19	10/03/12	00:00	EDWK	10/04/12	AQ	Ground Water	DUP-2 (100312)-EG
F97600-19F	10/03/12	00:00	EDWK	10/04/12	AQ	Groundwater Filtered	DUP-2 (100312)-EG

Sample Summary
(continued)

CSX Transportation

Job No: F97600

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97600-20	10/03/12	16:10	EDWK	10/04/12	AQ	Ground Water	MW-31A (100312)-EG
F97600-20F	10/03/12	16:10	EDWK	10/04/12	AQ	Groundwater Filtered	MW-31A (100312)-EG
F97600-21	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97600-22	10/03/12	00:00	EDWK	10/04/12	AQ	Ground Water	DUP-1 (100312)-EG
F97600-22F	10/03/12	00:00	EDWK	10/04/12	AQ	Groundwater Filtered	DUP-1 (100312)-EG
F97600-23	10/03/12	10:40	EDWK	10/04/12	AQ	Ground Water	MW-38B (100312)
F97600-23F	10/03/12	10:40	EDWK	10/04/12	AQ	Groundwater Filtered	MW-38B (100312)
F97600-24	10/03/12	11:20	EDWK	10/04/12	AQ	Ground Water	MW-38C (100312)
F97600-24F	10/03/12	11:20	EDWK	10/04/12	AQ	Groundwater Filtered	MW-38C (100312)
F97600-25	10/03/12	11:55	EDWK	10/04/12	AQ	Ground Water	MW-38D (100312)
F97600-25F	10/03/12	11:55	EDWK	10/04/12	AQ	Groundwater Filtered	MW-38D (100312)
F97600-26	10/03/12	00:00	EDWK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97600-27	10/03/12	09:10	EDWK	10/04/12	AQ	Ground Water	MW-41A (100312)

Sample Summary
(continued)

CSX Transportation

Job No: F97600

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97600-27F	10/03/12	09:10	EDWK	10/04/12	AQ	Groundwater Filtered	MW-41A (100312)
F97600-28	10/03/12	09:55	EDWK	10/04/12	AQ	Ground Water	MW-38A (100312)
F97600-28D	10/03/12	09:55	EDWK	10/04/12	AQ	Water Dup/MSD	MW-38A (100312)
F97600-28S	10/03/12	09:55	EDWK	10/04/12	AQ	Water Matrix Spike	MW-38A (100312)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97600

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/22/2012 10:06:35

18 Samples and 1 Trip Blank were collected on 10/03/2012 and were received at Accutest SE on 10/04/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F97600. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ4145

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VJ4146

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43901

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5MS, F97553-5MSD were used as the QC samples indicated.

Sample(s) OP43901-MS1, OP43901-MSD1 have surrogates outside control limits.

F97600-6: Dilution required due to high PAH levels.

OP43901-MS1 for 2-Fluorophenol: Outside control limits.

OP43901-MS1/MSD for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43916

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP43916-BS, F97600-9, OP43916-MS, OP43916-MSD have surrogates outside control limits.

OP43916-MS/MSD for 2-Fluorophenol, Phenol-d5: Outside control limits.

F97600-9 for 2-Fluorophenol: Outside control limits due to dilution.

F97600-9 for Phenol-d5: Outside control limits due to dilution.

F97600-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-9 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-9 for Terphenyl-d14: Outside control limits due to dilution.

F97600-22: Dilution required due to high PAH levels.

F97600-23: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43922

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Phenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Carbazole are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43922-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43922-MS, OP43922-MSD, OP43922-BS have surrogates outside control limits.

F97600-28: Dilution required due to high PAH levels.

OP43922-BS for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5MS, F97553-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) F97600-6 has surrogates outside control limits.

OP43902-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43902-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-6 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-6 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43917

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Pyrene are outside control limits for sample OP43917-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F97600-9, F97600-22, F97600-23 have surrogates outside control limits.

OP43917-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-8 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-8 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-8 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-8 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-9 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-9 for Terphenyl-d14: Outside control limits due to dilution.

F97600-11 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-11 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-11 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-11 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-12 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-12 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-12 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-12 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-18 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-18 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-18 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-18 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-19 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-19 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-19 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-19 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-20 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-20 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-20 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-20 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-22 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-22 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-22 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-22 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43917

F97600-23 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-23 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-23 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-23 for Terphenyl-d14: Outside control limits due to dilution.

F97600-24 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-24 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-24 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-24 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-25 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-25 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-25 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-25 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97600-27 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97600-27 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97600-27 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97600-27 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP43923

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) F97600-6, F97600-9, F97600-22, F97600-23, F97600-28, OP43923-MS, OP43923-MSD have surrogates outside control limits.

OP43923-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43923-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43923-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43923-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43923-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97600-28 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-28 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-28 for Terphenyl-d14: Outside control limits due to dilution.

F97600-28 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97600-28 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-28 for Nitrobenzene-d5: Outside control limits due to dilution.

F97600-28 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97600-28 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23832

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97553-5FDUP, F97553-5FMS, F97553-5FMSD, F97553-5FPS, F97553-5FSDL, F97561-2PS, F97561-2SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23852

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97561-2FPS, F97561-2FSDL, F97600-28DUP, F97600-28MS, F97600-28MSD, F97600-28PS, F97600-28SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23861

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11FDUP, F97600-11FMS, F97600-11FMSD, F97600-11FPS, F97600-11FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 22, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97600
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97600-1	**TRIP BLANK**					
No hits reported in this sample.						
F97600-2	**MW-31C (100312)**					
Naphthalene		0.00097	0.00095		mg/l	SW846 8270D BY SIM
F97600-2F	**MW-31C (100312)**					
No hits reported in this sample.						
F97600-3	**MW-31B (100312)**					
No hits reported in this sample.						
F97600-3F	**MW-31B (100312)**					
No hits reported in this sample.						
F97600-4	**MW-25A (100312)**					
Carbazole		0.0056	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0123	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0218	0.00095		mg/l	SW846 8270D BY SIM
Anthracene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0088	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0167	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0181	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0048	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0047	0.00095		mg/l	SW846 8270D BY SIM
F97600-5	**TRIP BLANK**					
No hits reported in this sample.						
F97600-6	**MW-30A (100312)**					
Benzene		0.241	0.025		mg/l	SW846 8260B
Toluene		0.0428	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.161	0.025		mg/l	SW846 8260B
Xylene (total)		0.327	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.493	0.048		mg/l	SW846 8270D
2-Methylphenol [a]		0.0978	0.048		mg/l	SW846 8270D
Carbazole [a]		0.178	0.048		mg/l	SW846 8270D

Summary of Hits

Job Number: F97600
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzofuran [a]		0.0937	0.048		mg/l	SW846 8270D
2-Methylnaphthalene		0.326	0.24		mg/l	SW846 8270D BY SIM
Naphthalene		5.97	0.24		mg/l	SW846 8270D BY SIM
F97600-6F	**MW-30A (100312)**					
No hits reported in this sample.						
F97600-7	**MW-30B (100312)**					
Naphthalene		0.0083	0.00095		mg/l	SW846 8270D BY SIM
F97600-8	**MW-55A (100312)**					
Acenaphthene		0.0037	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0023	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0074	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
F97600-9	**MW-55B (100312)**					
Benzene		0.283	0.025		mg/l	SW846 8260B
Toluene		0.244	0.025		mg/l	SW846 8260B
Ethylbenzene		0.175	0.025		mg/l	SW846 8260B
Xylene (total)		0.346	0.075		mg/l	SW846 8260B
2,4-Dichlorophenol		0.0318	0.019		mg/l	SW846 8270D
2,4-Dimethylphenol		1.06	0.096		mg/l	SW846 8270D
2-Methylphenol		0.531	0.096		mg/l	SW846 8270D
3&4-Methylphenol		0.633	0.096		mg/l	SW846 8270D
Phenol		0.102	0.019		mg/l	SW846 8270D
Carbazole		0.247	0.019		mg/l	SW846 8270D
Dibenzofuran		0.111	0.019		mg/l	SW846 8270D
Acenaphthene		0.175	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0671	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.346	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		8.48	0.38		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0340	0.019		mg/l	SW846 8270D BY SIM
F97600-10	**TRIP BLANK**					
No hits reported in this sample.						
F97600-11	**MW-32C (100312)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F97600
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97600-11F	**MW-32C (100312)**					
No hits reported in this sample.						
F97600-12	**MW-32B (100312)**					
No hits reported in this sample.						
F97600-12F	**MW-32B (100312)**					
No hits reported in this sample.						
F97600-17	**TRIP BLANK**					
No hits reported in this sample.						
F97600-18	**MW-32A (100312)**					
Acenaphthene		0.0022	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0015	0.00095		mg/l	SW846 8270D BY SIM
F97600-18F	**MW-32A (100312)**					
No hits reported in this sample.						
F97600-19	**DUP-2 (100312)-EG**					
Acenaphthene		0.0020	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
F97600-19F	**DUP-2 (100312)-EG**					
No hits reported in this sample.						
F97600-20	**MW-31A (100312)-EG**					
No hits reported in this sample.						
F97600-20F	**MW-31A (100312)-EG**					
No hits reported in this sample.						

Summary of Hits

Job Number: F97600
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97600-21	**TRIP BLANK**					
No hits reported in this sample.						
F97600-22	**DUP-1 (100312)-EG**					
Benzene		0.101	0.010		mg/l	SW846 8260B
Toluene		0.0165	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.119	0.010		mg/l	SW846 8260B
Xylene (total)		0.245	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.116	0.048		mg/l	SW846 8270D
Carbazole [a]		0.280	0.048		mg/l	SW846 8270D
Dibenzofuran [a]		0.144	0.048		mg/l	SW846 8270D
Acenaphthene		0.259	0.095		mg/l	SW846 8270D BY SIM
Fluorene		0.107	0.095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.275	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		7.47	0.19		mg/l	SW846 8270D BY SIM
F97600-22F	**DUP-1 (100312)-EG**					
No hits reported in this sample.						
F97600-23	**MW-38B (100312)**					
Benzene		0.102	0.010		mg/l	SW846 8260B
Toluene		0.0168	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.104	0.010		mg/l	SW846 8260B
Xylene (total)		0.213	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.171	0.024		mg/l	SW846 8270D
Carbazole [a]		0.199	0.024		mg/l	SW846 8270D
Dibenzofuran [a]		0.121	0.024		mg/l	SW846 8270D
Acenaphthene		0.211	0.095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.210	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		6.40	0.19		mg/l	SW846 8270D BY SIM
F97600-23F	**MW-38B (100312)**					
No hits reported in this sample.						
F97600-24	**MW-38C (100312)**					
Naphthalene		0.0060	0.00096		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: F97600
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97600-24F	**MW-38C (100312)**					
No hits reported in this sample.						
F97600-25	**MW-38D (100312)**					
Naphthalene		0.0047	0.00095		mg/l	SW846 8270D BY SIM
F97600-25F	**MW-38D (100312)**					
No hits reported in this sample.						
F97600-26	**TRIP BLANK**					
No hits reported in this sample.						
F97600-27	**MW-41A (100312)**					
No hits reported in this sample.						
F97600-27F	**MW-41A (100312)**					
No hits reported in this sample.						
F97600-28	**MW-38A (100312)**					
Benzene		0.110	0.010		mg/l	SW846 8260B
Toluene		0.0139	0.010		mg/l	SW846 8260B
Ethylbenzene		0.126	0.010		mg/l	SW846 8260B
Xylene (total)		0.259	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.111	0.048		mg/l	SW846 8270D
Carbazole [a]		0.230	0.048		mg/l	SW846 8270D
Dibenzofuran [a]		0.123	0.048		mg/l	SW846 8270D
Acenaphthene		0.215	0.048		mg/l	SW846 8270D BY SIM
Fluorene		0.0857	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.228	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		7.23	0.19		mg/l	SW846 8270D BY SIM

(a) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97600-1 **Date Sampled:** 10/03/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079752.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (100312)		
Lab Sample ID:	F97600-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079756.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (100312)		
Lab Sample ID:	F97600-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025927.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	36%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (100312)		
Lab Sample ID:	F97600-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068001.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.00097	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (100312)		
Lab Sample ID:	F97600-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (100312)		
Lab Sample ID:	F97600-2F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (100312)		
Lab Sample ID:	F97600-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079757.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (100312)		
Lab Sample ID:	F97600-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025928.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-62%
4165-62-2	Phenol-d5	37%		10-40%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (100312)		
Lab Sample ID:	F97600-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068002.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (100312)
Lab Sample ID: F97600-3
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/03/12
Date Received: 10/04/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (100312)		
Lab Sample ID:	F97600-3F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-25A (100312)
Lab Sample ID: F97600-4 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079783.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (100312)		
Lab Sample ID:	F97600-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025929.D	1	10/10/12	FS	10/09/12	OP43901	SX1251
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0056	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0123	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	34%		10-40%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (100312)		
Lab Sample ID:	F97600-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068003.D	1	10/12/12	MG	10/09/12	OP43902	SW3296
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0218	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	0.0016	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0088	0.00095	mg/l	
86-73-7	Fluorene	0.0167	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0181	0.00095	mg/l	
85-01-8	Phenanthrene	0.0048	0.00095	mg/l	
129-00-0	Pyrene	0.0047	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	88% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (100312)		
Lab Sample ID:	F97600-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97600-5	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079753.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A (100312)
Lab Sample ID: F97600-6 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079759.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2	J079784.D	5	10/14/12	AP	n/a	n/a	VJ4146

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.241 [a]	0.025	mg/l	
108-88-3	Toluene	0.0428	0.0050	mg/l	
100-41-4	Ethylbenzene	0.161 [a]	0.025	mg/l	
1330-20-7	Xylene (total)	0.327 [a]	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	88%	76-127%
2037-26-5	Toluene-D8	93%	93%	86-112%
460-00-4	4-Bromofluorobenzene	102%	91%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (100312)		
Lab Sample ID:	F97600-6	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004536.D	10	10/11/12	FS	10/09/12	OP43901	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.493	0.048	mg/l	
95-48-7	2-Methylphenol	0.0978	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.178	0.048	mg/l	
132-64-9	Dibenzofuran	0.0937	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		14-62%
4165-62-2	Phenol-d5	40%		10-40%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	87%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (100312)		
Lab Sample ID:	F97600-6	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068013.D	250	10/15/12	MG	10/09/12	OP43902	SW3297
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.24	mg/l	
83-32-9	Acenaphthene	ND	0.24	mg/l	
208-96-8	Acenaphthylene	ND	0.24	mg/l	
120-12-7	Anthracene	ND	0.24	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.048	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.048	mg/l	
218-01-9	Chrysene	ND	0.048	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.048	mg/l	
206-44-0	Fluoranthene	ND	0.24	mg/l	
86-73-7	Fluorene	ND	0.24	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.048	mg/l	
91-57-6	2-Methylnaphthalene	0.326	0.24	mg/l	
91-20-3	Naphthalene	5.97	0.24	mg/l	
85-01-8	Phenanthrene	ND	0.24	mg/l	
129-00-0	Pyrene	ND	0.24	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (100312)		
Lab Sample ID:	F97600-6	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30A (100312)		
Lab Sample ID:	F97600-6F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (100312)		
Lab Sample ID:	F97600-7	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079785.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (100312)		
Lab Sample ID:	F97600-7	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034186.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (100312)		
Lab Sample ID:	F97600-7	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067918.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0083	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (100312)		
Lab Sample ID:	F97600-7	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-55A (100312)
Lab Sample ID: F97600-8 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079761.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (100312)		
Lab Sample ID:	F97600-8	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034187.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (100312)		
Lab Sample ID:	F97600-8	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067919.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0037	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0023	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0074	0.00095	mg/l	
85-01-8	Phenanthrene	0.0016	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (100312)		
Lab Sample ID:	F97600-8	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (100312)		
Lab Sample ID:	F97600-9	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079762.D	5	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.283	0.025	mg/l	
108-88-3	Toluene	0.244	0.025	mg/l	
100-41-4	Ethylbenzene	0.175	0.025	mg/l	
1330-20-7	Xylene (total)	0.346	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (100312)		
Lab Sample ID:	F97600-9	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034188.D	4	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2	L059947.D	20	10/12/12	NAF	10/09/12	OP43916	SL3050

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0318	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	1.06 [a]	0.096	mg/l	
95-48-7	2-Methylphenol	0.531 [a]	0.096	mg/l	
	3&4-Methylphenol	0.633 [a]	0.096	mg/l	
108-95-2	Phenol	0.102	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.247	0.019	mg/l	
132-64-9	Dibenzofuran	0.111	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%	0% [b]	14-62%
4165-62-2	Phenol-d5	32%	0% [b]	10-40%
118-79-6	2,4,6-Tribromophenol	88%	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	87%	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	89%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	96%	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (100312)		
Lab Sample ID:	F97600-9	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067920.D	20	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2	W068020.D	400	10/15/12	MG	10/09/12	OP43917	SW3297

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.175	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0671	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.346	0.019	mg/l	
91-20-3	Naphthalene	8.48 [a]	0.38	mg/l	
85-01-8	Phenanthrene	0.0340	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (100312)		
Lab Sample ID:	F97600-9	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97600-10	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079754.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (100312)		
Lab Sample ID:	F97600-11	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079763.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	89%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (100312)		
Lab Sample ID:	F97600-11	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034189.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (100312)		
Lab Sample ID:	F97600-11	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067922.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	71% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (100312)		
Lab Sample ID:	F97600-11	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/17/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/17/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10240
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (100312)		
Lab Sample ID:	F97600-11F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (100312)		
Lab Sample ID:	F97600-12	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079764.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (100312)		
Lab Sample ID:	F97600-12	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034192.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (100312)		
Lab Sample ID:	F97600-12	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067923.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (100312)		
Lab Sample ID:	F97600-12	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (100312)		
Lab Sample ID:	F97600-12F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97600-17	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079765.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (100312)		
Lab Sample ID:	F97600-18	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079766.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (100312)		
Lab Sample ID:	F97600-18	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034193.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	25%		10-40%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (100312)		
Lab Sample ID:	F97600-18	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067924.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0022	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0015	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (100312)		
Lab Sample ID:	F97600-18	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (100312)		
Lab Sample ID:	F97600-18F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (100312)-EG		
Lab Sample ID:	F97600-19	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079767.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100312)-EG		
Lab Sample ID:	F97600-19	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034194.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100312)-EG		
Lab Sample ID:	F97600-19	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067925.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0020	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0016	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (100312)-EG		
Lab Sample ID:	F97600-19	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (100312)-EG		
Lab Sample ID:	F97600-19F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-31A (100312)-EG
Lab Sample ID: F97600-20 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079768.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (100312)-EG		
Lab Sample ID:	F97600-20	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034195.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (100312)-EG		
Lab Sample ID:	F97600-20	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067926.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (100312)-EG		
Lab Sample ID:	F97600-20	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/05/12	10/05/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10205
(2) Prep QC Batch: MP23832

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (100312)-EG		
Lab Sample ID:	F97600-20F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97600-21	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079755.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (100312)-EG
Lab Sample ID: F97600-22 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079769.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2	J079786.D	2	10/14/12	AP	n/a	n/a	VJ4146

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.101 [a]	0.010	mg/l	
108-88-3	Toluene	0.0165	0.0050	mg/l	
100-41-4	Ethylbenzene	0.119 [a]	0.010	mg/l	
1330-20-7	Xylene (total)	0.245 [a]	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	95%	87-116%
17060-07-0	1,2-Dichloroethane-D4	109%	90%	76-127%
2037-26-5	Toluene-D8	93%	93%	86-112%
460-00-4	4-Bromofluorobenzene	98%	91%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100312)-EG		
Lab Sample ID:	F97600-22	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U034196.D	10	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.116	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.280	0.048	mg/l	
132-64-9	Dibenzofuran	0.144	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	31%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100312)-EG		
Lab Sample ID:	F97600-22	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067927.D	100	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2	W068021.D	200	10/15/12	MG	10/09/12	OP43917	SW3297

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.259	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	0.107	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.275	0.095	mg/l	
91-20-3	Naphthalene	7.47 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100312)-EG		
Lab Sample ID:	F97600-22	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100312)-EG		
Lab Sample ID:	F97600-22F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (100312)		
Lab Sample ID:	F97600-23	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079770.D	1	10/12/12	DP	n/a	n/a	VJ4145
Run #2	J079787.D	2	10/14/12	AP	n/a	n/a	VJ4146

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.102 [a]	0.010	mg/l	
108-88-3	Toluene	0.0168	0.0050	mg/l	
100-41-4	Ethylbenzene	0.104 [a]	0.010	mg/l	
1330-20-7	Xylene (total)	0.213 [a]	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	89%	76-127%
2037-26-5	Toluene-D8	93%	91%	86-112%
460-00-4	4-Bromofluorobenzene	101%	94%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (100312)		
Lab Sample ID:	F97600-23	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L059948.D	5	10/12/12	NAF	10/09/12	OP43916	SL3050
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.024	mg/l	
105-67-9	2,4-Dimethylphenol	0.171	0.024	mg/l	
95-48-7	2-Methylphenol	ND	0.024	mg/l	
	3&4-Methylphenol	ND	0.024	mg/l	
108-95-2	Phenol	ND	0.024	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.024	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.024	mg/l	
86-74-8	Carbazole	0.199	0.024	mg/l	
132-64-9	Dibenzofuran	0.121	0.024	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		14-62%
4165-62-2	Phenol-d5	32%		10-40%
118-79-6	2,4,6-Tribromophenol	90%		33-118%
4165-60-0	Nitrobenzene-d5	106%		42-108%
321-60-8	2-Fluorobiphenyl	96%		40-106%
1718-51-0	Terphenyl-d14	109%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (100312)		
Lab Sample ID:	F97600-23	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067928.D	100	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2	W068022.D	200	10/15/12	MG	10/09/12	OP43917	SW3297

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.211	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.210	0.095	mg/l	
91-20-3	Naphthalene	6.40 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (100312)		
Lab Sample ID:	F97600-23	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (100312)		
Lab Sample ID:	F97600-23F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (100312)		
Lab Sample ID:	F97600-24	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079788.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (100312)		
Lab Sample ID:	F97600-24	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L059967.D	1	10/15/12	NAF	10/09/12	OP43916	SL3051
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		14-62%
4165-62-2	Phenol-d5	30%		10-40%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (100312)		
Lab Sample ID:	F97600-24	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067929.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0060	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (100312)		
Lab Sample ID:	F97600-24	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (100312)		
Lab Sample ID:	F97600-24F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-38D (100312)
Lab Sample ID: F97600-25 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079789.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (100312)		
Lab Sample ID:	F97600-25	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034199.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	93%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (100312)		
Lab Sample ID:	F97600-25	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067930.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0047	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (100312)		
Lab Sample ID:	F97600-25	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (100312)		
Lab Sample ID:	F97600-25F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97600-26	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079790.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	87%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (100312)
Lab Sample ID: F97600-27 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079791.D	1	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (100312)		
Lab Sample ID:	F97600-27	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034200.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (100312)
Lab Sample ID: F97600-27 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067931.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (100312)		
Lab Sample ID:	F97600-27	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (100312)		
Lab Sample ID:	F97600-27F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A (100312)		
Lab Sample ID:	F97600-28	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079792.D	2	10/14/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.110	0.010	mg/l	
108-88-3	Toluene	0.0139	0.010	mg/l	
100-41-4	Ethylbenzene	0.126	0.010	mg/l	
1330-20-7	Xylene (total)	0.259	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (100312)		
Lab Sample ID:	F97600-28	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004571.D	10	10/12/12	FS	10/10/12	OP43922	ST231
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	0.111	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	0.230	0.048	mg/l	
132-64-9	Dibenzofuran	0.123	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	86%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (100312)		
Lab Sample ID:	F97600-28	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034387.D	50	10/17/12	NAF	10/10/12	OP43923	SU1626
Run #2	U034418.D	200	10/17/12	NAF	10/10/12	OP43923	SU1627

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.215	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0096	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0096	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0096	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0096	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0096	mg/l	
218-01-9	Chrysene	ND	0.0096	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0096	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	0.0857	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0096	mg/l	
91-57-6	2-Methylnaphthalene	0.228	0.048	mg/l	
91-20-3	Naphthalene	7.23 [a]	0.19	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (100312)		
Lab Sample ID:	F97600-28	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/09/12	10/09/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10212
(2) Prep QC Batch: MP23852

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: LN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD, No HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 Silica Gel	Total Metals As+Pb	Diss. Metals As+Pb *	Gold *	COMMENTS	LAB USE
Trip Blank	2 VOA	——	Lab Supplied	——				X						
MW-31C (100312)	7	10/3/12	1545	EG	N	G	GW	X	X	X	X			
MW-31B (100312)	7	10/3/12	1640	EG	N	G	GW	X	X	X	X			
MW-25A (100312)	6	10/3/12	1635	WK	N	G	GW	X	X	X				

Relinquished By: Amy Dunn — Date/Time: 10/3/12 1732 — Received By: FedEx
Relinquished By: FX — Date/Time: — Received By: J. Coppe (ALSE)
Relinquished By: — Date/Time: — Received By:
Received By Laboratory: — Date/Time: — Lab Remarks:

Date/Time: — Date/Time: 10-4-12 07:30 — Date/Time:

Comments & Special Analytical Requirements:
* Lab filter + preserve dissolved metals

LAB USE: Custody Intact [ ] Yes [ ] No — Custody Seal # — LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.6 3.0 2.8 2.8 3.0 2.1 3.2 2.6

5.1 5

F97600: Chain of Custody
Page 1 of 8

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs ONLY)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)* Lab Filter + Preserve				COMMENTS	LAB USE
TRIP BLANK	2 VOA		LAB SUPPLIED					X							LAB SUPPLIED	
MW-30A(100312)	7	10/03/12	1315	WK	N	G	GW	X	X	X	X					
MW-30B(100312)	6	10/03/12	1355	WK	N	G	GW	X	X	X						
MW-55A(100312)	6	10/03/12	1505	WK	N	G	GW	X	X	X						
MW-55B(100312)	6	10/03/12	1555	WK	N	G	GW	X	X	X						
															Preserved On Ice	
															→ WK 10/03/12	

Relinquished By:	Date Time: 10/03/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * Site COCs ONLY for SVOCs	
Relinquished By: FX	Date Time:	Received By: J. Comer (ARSE)	Date Time: 10-4-12 09:30	+ Lab Filter and Preserve Dissolved Metals	
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F97600: Chain of Custody
Page 2 of 8

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 855
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data Cfony No Hard Copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM	Total Metals As, Pb 6010	Diss. Metals As, Pb 6010 *	COMMENTS	LAB USE
Trip Blank	2 VOA	—	Lab	Supplied	—	—		X					
MW-32C (100312)	21	10/3/12	1405	EG	N	G	GW	X	X	X	X		
MW-32B (100312)	7	10/3/12	1440	EG	N	G	GW	X	X	X	X	MS/MSD	

	Date/Time		Date/Time
Relinquished By:	10/3/12 1730	Received By: FedEx	
Relinquished By:		Received By: J. Cosme (Alsk)	Date/Time: 10-4-12 09:30
Relinquished By:		Received By:	
Received By Laboratory:		Lab Remarks:	

Comments & Special Analytical Requirements: * Lab filter and preserve dissolved metals

LAB USE: [ ] Yes [ ] No Custody Intact
Custody Seal #
LAB Log Number

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

F97600: Chain of Custody
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CSX TRANSPORTATION

CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072 0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other _____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010	Dissolved Metals 6010 *	COMMENTS	LAB USE
1	Trip Blank	2VOA	— Lab Supplied —						X					
3	MW-32A (100312)	7	10/3/12	1315	EG	N	G	GW	X	X	X	X		
4	DUP-2 (100312)-EG	7	10/3/12	—	EG	N	G	GW	X	X	X	X		
2	MW-31A (100312)-EG	7	10/3/12	1610	EG	N	G	GW	X	X	X	X		
	~~MW-31C (10~~													

Relinquished By:	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
[signature]	10/3/12 1730	Fed Ex		* Lab filter & preserve dissolved metals
Relinquished By: FX	Date Time:	Received By: J. Crane (AISE)	Date Time: 10-4-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97600: Chain of Custody
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CSX TRANSPORTATION

CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] Other Deliv: Data Only NO HARD COPY
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260; SVOCs 8270 Site COCs; Total Metals 6010 As+Pb; Dissolved Metals 6010 As+Pb *	COMMENTS	LAB USE
Trip Blank	2 VOA	—	Lab Supplied		—	—	—	X		
DUP-1 (100312)-EG	7	10/3/12	—	EG	N	G	GW	X X X X		
MW-38B (100312)	7	10/3/12	1040	EG	N	G	GW	X X X X		
MW-38C (100312)	7	10/3/12	1120	EG	N	G	GW	X X X X		
MW-38D (100312)	7	10/3/12	1155	EG	N	G	GW	X X X X		

Relinquished By: Emily Shue	Date Time: 10/3/12 1730	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: * Lab filter and preserve dissolved metals
Relinquished By: FX	Date Time:	Received By: J. Grapel (AISE)	Date Time: 10-4-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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CSX TRANSPORTATION

CHAIN OF CUSTODY

COC # F97600

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

SXT PROJECT INFORMATION
SXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other ____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM only	Total Metals 6010 As+Pb	Dissolved Metals 6010 As+Pb *	COMMENTS	LAB USE
Trip Blank	2 VOA	— Lab Supplied —						X					
MW-41A (100312)	7	10/3/12	910	EG	N	G	GW	X	X	X	X		
MW-38A (100312)	18	10/3/12	955	EG	N	G	GW	X	X	X		MS/MSD	

	Date Time:	Received By:	Date Time:
Relinquished By: Amy Hulse	10/3/12 1730	Received By: FedEx	
Relinquished By: FX		Received By: J. Cook ALSE	Date Time: 10.4.12 09:30
Relinquished By:		Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements:
* Lab filter and preserve dissolved metals

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97600 CLIENT: ARCADIS PROJECT: 94158.19

DATE/TIME RECEIVED: 10-4-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 8

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4775

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK 8
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 21

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2 2.6 2.4 2.4 2.6 2.0 2.8 2.2
- [ ] CORRECTED TEMPS: 2.6 3.0 2.8 2.8 3.0 2.4 3.2 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [X] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: FOR SAMPLE #20 COC reads 31A LAMBER reads 51A (8:70)

TECHNICIAN SIGNATURE/DATE [signature] 10-4-12 REVIEWER SIGNATURE/DATE [signature] 10/04/12

NF 12/10

receipt confirmation 122910.xls

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F97600: Chain of Custody

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Table 1. Chemicals of Concern Units	Yes	Closure Limits mg/L Industrial	 mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			**Note 1**
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F97600: Chain of Custody
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Southeast ACCUTEST LABORATORIES

10/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F97621

Sampling Date: 10/03/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **27**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97621

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97621-1	10/03/12	00:00	WK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97621-2	10/03/12	09:00	WK	10/04/12	AQ	Ground Water	MW-51B (100312)
F97621-2F	10/03/12	09:00	WK	10/04/12	AQ	Groundwater Filtered	MW-51B (100312)
F97621-3	10/03/12	00:00	WK	10/04/12	AQ	Ground Water	DUP-1 (100312)
F97621-3F	10/03/12	00:00	WK	10/04/12	AQ	Groundwater Filtered	DUP-1 (100312)
F97621-4	10/03/12	09:45	WK	10/04/12	AQ	Ground Water	MW-36A (100312)
F97621-4F	10/03/12	09:45	WK	10/04/12	AQ	Groundwater Filtered	MW-36A (100312)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97621

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/17/2012 1:32:05 PM

3 Sample(s) and 1 Trip Blank were collected on 10/03/2012 and were received at Accutest SE on 10/04/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F97621. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ4146

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Matrix: AQ **Batch ID:** VM2558

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97684-5MS, F97684-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.
RPD(s) for MSD for Toluene are outside control limits for sample F97684-5MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43916

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP43916-BS, OP43916-MS, OP43916-MSD have surrogates outside control limits.

OP43916-MS/MSD for 2-Fluorophenol: Outside control limits.

OP43916-MS/MSD for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43917

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Pyrene are outside control limits for sample OP43917-MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43917

OP43917-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97621-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97621-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97621-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97621-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97621-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97621-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97621-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97621-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97621-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97621-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97621-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97621-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23861

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11FDUP, F97600-11FMS, F97600-11FMSD, F97600-11FPS, F97600-11FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 17, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97621
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97621-1	**TRIP BLANK**					
No hits reported in this sample.						
F97621-2	**MW-51B (100312)**					
Dibenzofuran		0.0058	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0092	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0064	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0084	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0542	0.0038		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0078	0.00095		mg/l	SW846 8270D BY SIM
F97621-2F	**MW-51B (100312)**					
No hits reported in this sample.						
F97621-3	**DUP-1 (100312)**					
Dibenzofuran		0.0059	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0097	0.00099		mg/l	SW846 8270D BY SIM
Fluorene		0.0069	0.00099		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0086	0.00099		mg/l	SW846 8270D BY SIM
Naphthalene		0.0570	0.0040		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0082	0.00099		mg/l	SW846 8270D BY SIM
F97621-3F	**DUP-1 (100312)**					
No hits reported in this sample.						
F97621-4	**MW-36A (100312)**					
2,4,6-Trichlorophenol		0.0119	0.0048		mg/l	SW846 8270D
Carbazole		0.0048	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0082	0.0048		mg/l	SW846 8270D
Pentachlorophenol		0.0045	0.00095		mg/l	SW846 8270D BY SIM
Acenaphthene		0.0081	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0046	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0060	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0024	0.00095		mg/l	SW846 8270D BY SIM
F97621-4F	**MW-36A (100312)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97621-1	**Date Sampled:**	10/03/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079799.D	1	10/15/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (100312)
Lab Sample ID: F97621-2 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J079800.D	1	10/15/12	AP	n/a	n/a	VJ4146
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	90%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (100312)		
Lab Sample ID:	F97621-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034201.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0058	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (100312)
Lab Sample ID: F97621-2 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067932.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2	W068023.D	4	10/15/12	MG	10/09/12	OP43917	SW3296

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0092	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0064	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0084	0.00095	mg/l	
91-20-3	Naphthalene	0.0542 [a]	0.0038	mg/l	
85-01-8	Phenanthrene	0.0078	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [b]	80% [b]	33-118%
4165-60-0	Nitrobenzene-d5	59% [b]	69% [b]	42-108%
321-60-8	2-Fluorobiphenyl	53% [b]	66% [b]	40-106%
1718-51-0	Terphenyl-d14	60% [b]	80% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (100312)
Lab Sample ID: F97621-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 10/03/12
Date Received: 10/04/12
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (100312)		
Lab Sample ID:	F97621-2F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100312)		
Lab Sample ID:	F97621-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006748.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100312)		
Lab Sample ID:	F97621-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034202.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0059	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (100312)
Lab Sample ID: F97621-3 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067933.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2	W068024.D	4	10/15/12	MG	10/09/12	OP43917	SW3297

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1010 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	0.0097	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	0.0069	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	0.0086	0.00099	mg/l	
91-20-3	Naphthalene	0.0570 [a]	0.0040	mg/l	
85-01-8	Phenanthrene	0.0082	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [b]	87% [b]	33-118%
4165-60-0	Nitrobenzene-d5	59% [b]	71% [b]	42-108%
321-60-8	2-Fluorobiphenyl	54% [b]	68% [b]	40-106%
1718-51-0	Terphenyl-d14	62% [b]	84% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100312)		
Lab Sample ID:	F97621-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100312)		
Lab Sample ID:	F97621-3F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (100312)		
Lab Sample ID:	F97621-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006749.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (100312)		
Lab Sample ID:	F97621-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034203.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.0119	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0048	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0082	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	112%		33-118%
4165-60-0	Nitrobenzene-d5	93%		42-108%
321-60-8	2-Fluorobiphenyl	92%		40-106%
1718-51-0	Terphenyl-d14	119%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36A (100312)
Lab Sample ID: F97621-4 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W067934.D	1	10/10/12	MG	10/09/12	OP43917	SW3294
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0045	0.00095	mg/l	
83-32-9	Acenaphthene	0.0081	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0046	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0060	0.00095	mg/l	
85-01-8	Phenanthrene	0.0024	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (100312)		
Lab Sample ID:	F97621-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (100312)		
Lab Sample ID:	F97621-4F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # F97621

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: #941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis IN 46204
Project #: IN000072.0064 0000)
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

JC	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs Only)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb) Lab Filter+Preserve	COMMENTS	LAB USE
JC	TRIP BLANK	2 VOA	———	LAB	SUPPLIED	———			X				LAB SUPPLIED	1
KF	MW-51B(100312)	7	10/03/12	0900	WK	N	G	GW	X	X	X	X	Preserved On Ice	2
KS	DUP-1(100312)-WK	7	10/03/12	—	WK	N	G	GW	X	X	X	X		3
KF	MW-36A(100312)	7	10/03/12	0945	WK	N	G	GW	X	X	X	X		4
													→ WK 10/03/12	

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: [signature]	10/03/12 1800	FX		★Site COCs For SVOCs
Relinquished By: FX	Date Time:	J. Copper (ARCADIS)	10-4-12 09:30	★Lab Filter and Preserve dissolved Metals
Relinquished By:	Date Time:	Received By:	Date Time:	★Standalone Report For City
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97621: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97621 CLIENT: AA CHOIS PROJECT: 9215879

DATE/TIME RECEIVED: 10-4-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 893 5716 4775

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 2.1
- [ ] CORRECTED TEMPS: 2.3

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 10-4-12 REVIEWER SIGNATURE/DATE: 10/04/12

NF 12/10 receipt confirmation 122910.xls

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F97621: Chain of Custody
Page 2 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	x	6.13	1.82	**Note 1**
Acenaphthylene	x	0.73	0.071	**Note 1**
Anthracene	x	31	9.12	**Note 1**
Benzo(a)anthracene	x	0.01	0.0001	**Note 1**
Benzo(a)pyrene	x	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	x	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	x	***	***	**Note 1**
Benzo(k)fluoranthene	x	0.039	0.0002	**Note 1**
Carbazole	x	0.14	0.043	**Note 1**
Chrysene	x	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	x	0.01	0.0003	**Note 1**
Dibeznofuran	x	0.2	0.015	**Note 1**
Fluoranthene	x	0.818	0.243	**Note 1**
Fluorene	x	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	x	0.01	0.0	**Note 1**
2-Methlynaphthalene	x	0.41	0.031	**Note 1**
Naphthalene	x	4.09	1.22	**Note 1**
Phenanthrene	x	0.310	0.023	**Note 1**
Pyrene	x	3.07	0.912	**Note 1**
BTEX				
Benzene	x	0.099	0.005	**0.005**
Toluene	x	10.2	0.7	**0.7**
Ethylbenzene	x	20.4	1	**1**
Exylenes	x	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	x	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	x	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	x	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	x	5.11	1.52	**Note 1**
Pentachlorophenol	x	0.05	0.001	**Note 1**
2,4-Dichlorophenol	x	0.31	0.11	**Note 1**
Phenol	x	12	3.65	**Note 1**
2,4,6-Trichlorophenol	x	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	x	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	x	0.204	0.006	**Note 1**
Metals				
Arsenic	x	0.05	0.05	**0.005**
Lead	x	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F97621: Chain of Custody
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Southeast ACCUTEST LABORATORIES

10/22/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F97622

Sampling Date: 10/03/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97622

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F97622-1	10/03/12	00:00	WK	10/04/12	AQ	Trip Blank Water	TRIP BLANK
F97622-2	10/03/12	10:45	WK	10/04/12	AQ	Ground Water	MW-45A (100312)
F97622-2F	10/03/12	10:45	WK	10/04/12	AQ	Groundwater Filtered	MW-45A (100312)
F97622-3	10/03/12	11:20	WK	10/04/12	AQ	Ground Water	MW-45B (100312)
F97622-3F	10/03/12	11:20	WK	10/04/12	AQ	Groundwater Filtered	MW-45B (100312)
F97622-4	10/03/12	12:05	WK	10/04/12	AQ	Ground Water	MW-45C (100312)
F97622-4F	10/03/12	12:05	WK	10/04/12	AQ	Groundwater Filtered	MW-45C (100312)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97622

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/18/2012 2:07:02 PM

3 Samples and 1 Trip Blank were collected on 10/03/2012 and were received at Accutest SE on 10/04/2012 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F97622. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM2558

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97684-5MS, F97684-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Toluene are outside control limits for sample F97684-5MSD. Probable cause is due to sample is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43916

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
Sample(s) OP43916-BS, OP43916-MS, OP43916-MSD have surrogates outside control limits.

OP43916-MS/MSD for 2-Fluorophenol: Outside control limits.

OP43916-MS/MSD for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43922

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Phenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Carbazole are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43922-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43922-MS, OP43922-MSD, OP43922-BS have surrogates outside control limits.

OP43922-BS for Phenol-d5: Outside control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43917

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11MS, F97600-11MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Pyrene are outside control limits for sample OP43917-MSD. Probable cause is due to sample non-homogeneity.

OP43917-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43917-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97622-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97622-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97622-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97622-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP43923

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.
Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP43923-MS, OP43923-MSD have surrogates outside control limits.

OP43923-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43923-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43923-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43923-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43923-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97622-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97622-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97622-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97622-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97622-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97622-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97622-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97622-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23861

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-11FDUP, F97600-11FMS, F97600-11FMSD, F97600-11FPS, F97600-11FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 18, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97622
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/03/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97622-1	**TRIP BLANK**					
No hits reported in this sample.						
F97622-2	**MW-45A (100312)**					
No hits reported in this sample.						
F97622-2F	**MW-45A (100312)**					
No hits reported in this sample.						
F97622-3	**MW-45B (100312)**					
No hits reported in this sample.						
F97622-3F	**MW-45B (100312)**					
No hits reported in this sample.						
F97622-4	**MW-45C (100312)**					
Ethylbenzene		0.0056	0.0050		mg/l	SW846 8260B
Carbazole		0.0248	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0198	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0378	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0194	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.130	0.0048		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0108	0.00095		mg/l	SW846 8270D BY SIM
F97622-4F	**MW-45C (100312)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97622-1 **Date Sampled:** 10/03/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/04/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006750.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (100312)		
Lab Sample ID:	F97622-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006751.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (100312)		
Lab Sample ID:	F97622-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034204.D	1	10/10/12	NAF	10/09/12	OP43916	SU1620
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	57%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (100312)		
Lab Sample ID:	F97622-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068018.D	1	10/15/12	MG	10/09/12	OP43917	SW3297
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (100312)		
Lab Sample ID:	F97622-2	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A (100312)		
Lab Sample ID:	F97622-2F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (100312)		
Lab Sample ID:	F97622-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006752.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (100312)		
Lab Sample ID:	F97622-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004506.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-62%
4165-62-2	Phenol-d5	29%		10-40%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (100312)		
Lab Sample ID:	F97622-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034390.D	1	10/17/12	NAF	10/10/12	OP43923	SU1626
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (100312)		
Lab Sample ID:	F97622-3	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (100312)		
Lab Sample ID:	F97622-3F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (100312)		
Lab Sample ID:	F97622-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M006753.D	1	10/15/12	RB	n/a	n/a	VM2558
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0056	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (100312)		
Lab Sample ID:	F97622-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004507.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0248	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0198	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45C (100312)
Lab Sample ID: F97622-4 **Date Sampled:** 10/03/12
Matrix: AQ - Ground Water **Date Received:** 10/04/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034269.D	1	10/12/12	NAF	10/10/12	OP43923	SU1622
Run #2	U034391.D	5	10/17/12	NAF	10/10/12	OP43923	SU1626

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0378	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0194	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0017	0.00095	mg/l	
91-20-3	Naphthalene	0.130 [a]	0.0048	mg/l	
85-01-8	Phenanthrene	0.0108	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [b]	79% [b]	33-118%
4165-60-0	Nitrobenzene-d5	74% [b]	70% [b]	42-108%
321-60-8	2-Fluorobiphenyl	66% [b]	63% [b]	40-106%
1718-51-0	Terphenyl-d14	80% [b]	78% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (100312)		
Lab Sample ID:	F97622-4	**Date Sampled:**	10/03/12
Matrix:	AQ - Ground Water	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (100312)		
Lab Sample ID:	F97622-4F	**Date Sampled:**	10/03/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/04/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/10/12	10/10/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10217
(2) Prep QC Batch: MP23861

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97622

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: Bloomington
CSXT Contact: Paul J. Kwzenski
LWON: END 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0006.0000)
PM: Bryant. Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ 1 0 2 0
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs Only)	Total Metals 6010 (As + Pb)	Dissolved Metals 6010 (As+Pb) Lab Filt+Pres	COMMENTS	LAB USE
TRIP BLANK	2 VOA	——— LAB SUPPLIED ———						X				Preserved on Ice	
MW-45A(100312)	7	10/03/12	1045	WK	N	G	GW	X	X	X	X		1
MW-45B(100312)	7	10/03/12	1120	WK	N	G	GW	X	X	X	X		2
MW-45C(100312)	7	10/03/12	1205	WK	N	G	GW	X	X	X	X		3
													4
												WK 10/3/12	

Relinquished By: Wade KK	Date Time: 10/03/12 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * Site COCs For SVOCs * Lab Filter and Preserve Dissolved Metals * Standalone Report For City
Relinquished By: FX	Date Time:	Received By: J. Cooper (ALS)	Date Time: 10-4-12 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.6

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F97622: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97622 CLIENT: ARCADIS PROJECT: 94158219

DATE/TIME RECEIVED: 10-1-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8013 5716 4775

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.2
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [signature] 10-1-12 REVIEWER SIGNATURE/DATE: [signature] 10/04/12

NF 12/10

receipt confirmation 122910.xls

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F97622: Chain of Custody

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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F97622: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

10/22/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061.00001

Accutest Job Number: F97652

Sampling Date: 10/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **38**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97652

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97652-1	10/04/12	00:00	WK	10/05/12	AQ	Trip Blank Water	TRIP BLANK
F97652-2	10/04/12	10:15	WK	10/05/12	AQ	Ground Water	MW-40A (100412)
F97652-2F	10/04/12	10:15	WK	10/05/12	AQ	Groundwater Filtered	MW-40A (100412)
F97652-3	10/04/12	11:00	WK	10/05/12	AQ	Ground Water	MW-40B (100412)
F97652-4	10/04/12	11:40	WK	10/05/12	AQ	Ground Water	MW-40C (100412)
F97652-5	10/04/12	00:00	WK	10/05/12	AQ	Trip Blank Water	TRIP BLANK
F97652-6	10/04/12	09:15	WK	10/05/12	AQ	Ground Water	MW-54B (100412)
F97652-6F	10/04/12	09:15	WK	10/05/12	AQ	Groundwater Filtered	MW-54B (100412)
F97652-7	10/04/12	12:30	WK	10/05/12	AQ	Ground Water	MW-29A (100412)
F97652-7F	10/04/12	12:30	WK	10/05/12	AQ	Groundwater Filtered	MW-29A (100412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97652

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/18/2012 2:07:58 PM

5 Samples and 1 Trip Blank were collected on 10/04/2012 and were received at Accutest SE on 10/05/2012 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F97652. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ463

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ464

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97644-1MS, F97644-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43922

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.
Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Carbazole are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43922-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43922-MS, OP43922-MSD, OP43922-BS have surrogates outside control limits.

F97652-6: Dilution required due to high PAH levels.

OP43922-BS for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43944

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97659-1DUP, F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43944-MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43944

Sample(s) OP43944-DUP, OP43944-MS, OP43944-MSD have surrogates outside control limits.

OP43944-DUP for Nitrobenzene-d5: Outside control limits due to dilution.

OP43944-MS/MSD: Dilution required due to matrix interference.

OP43944-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

OP43944-MS/MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

OP43944-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

OP43944-MS/MSD for Terphenyl-d14: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43923

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) F97652-6, OP43923-MS, OP43923-MSD have surrogates outside control limits.

OP43923-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43923-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43923-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43923-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43923-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97652-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97652-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97652-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97652-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97652-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97652-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97652-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97652-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97652-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97652-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97652-6 for Nitrobenzene-d5: Outside control limits due to dilution.

F97652-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97652-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97652-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97652-6 for Terphenyl-d14: Outside control limits due to dilution.

F97652-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97652-7 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97652-7 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97652-7 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97652-7 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43946

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Pentachlorophenol are outside control limits. Dilution required due to matrix interference.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Pentachlorophenol, Pyrene are outside control limits for sample OP43946-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43946-MS, OP43946-MSD have surrogates outside control limits.

OP43946-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP43946-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-MS/MSD: Dilution required due to matrix interference.

OP43946-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43946-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43946-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43946-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97652-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97652-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97652-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97652-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23873

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97774-1DUP, F97774-1MS, F97774-1MSD, F97774-1PS, F97774-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23873-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 18, 2012

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97652
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/04/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97652-1	**TRIP BLANK**					
No hits reported in this sample.						
F97652-2	**MW-40A (100412)**					
Naphthalene		0.0032	0.00095		mg/l	SW846 8270D BY SIM
F97652-2F	**MW-40A (100412)**					
No hits reported in this sample.						
F97652-3	**MW-40B (100412)**					
Acenaphthene		0.0103	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0026	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0064	0.00095		mg/l	SW846 8270D BY SIM
F97652-4	**MW-40C (100412)**					
Acenaphthene		0.0068	0.00097		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0071	0.00097		mg/l	SW846 8270D BY SIM
Fluorene		0.0038	0.00097		mg/l	SW846 8270D BY SIM
Pyrene		0.0037	0.00097		mg/l	SW846 8270D BY SIM
F97652-5	**TRIP BLANK**					
No hits reported in this sample.						
F97652-6	**MW-54B (100412)**					
Benzene		0.0894	0.0050		mg/l	SW846 8260B
Toluene		0.0149	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0925	0.010		mg/l	SW846 8260B
Xylene (total)		0.114	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0416	0.019		mg/l	SW846 8270D
Carbazole [a]		0.0926	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.0707	0.019		mg/l	SW846 8270D
Acenaphthene		0.187	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.168	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		3.02	0.096		mg/l	SW846 8270D BY SIM
F97652-6F	**MW-54B (100412)**					
No hits reported in this sample.						

Summary of Hits

Job Number: F97652
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/04/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97652-7	**MW-29A (100412)**					
Acenaphthene		0.0059	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.00096	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0044	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.00099	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0051	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0028	0.00095		mg/l	SW846 8270D BY SIM
F97652-7F	**MW-29A (100412)**					
No hits reported in this sample.						

(a) Dilution required due to high PAH levels.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: F97652-1 **Date Sampled:** 10/04/12
Matrix: AQ - Trip Blank Water **Date Received:** 10/05/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10352.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (100412)		
Lab Sample ID:	F97652-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10353.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (100412)		
Lab Sample ID:	F97652-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025947.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (100412)		
Lab Sample ID:	F97652-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068061.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0032	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (100412)		
Lab Sample ID:	F97652-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (100412)		
Lab Sample ID:	F97652-2F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (100412)		
Lab Sample ID:	F97652-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10354.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (100412)		
Lab Sample ID:	F97652-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004516.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (100412)
Lab Sample ID:	F97652-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	10/04/12
Date Received:	10/05/12
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034270.D	1	10/12/12	NAF	10/10/12	OP43923	SU1622
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0103	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0026	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0064	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (100412)		
Lab Sample ID:	F97652-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-40C (100412)
Lab Sample ID: F97652-4 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10355.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (100412)		
Lab Sample ID:	F97652-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004517.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (100412)		
Lab Sample ID:	F97652-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034271.D	1	10/12/12	NAF	10/10/12	OP43923	SU1622
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.0068	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0071	0.00097	mg/l	
86-73-7	Fluorene	0.0038	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	0.0037	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (100412)		
Lab Sample ID:	F97652-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97652-5	**Date Sampled:**	10/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10372.D	1	10/16/12	KW	n/a	n/a	VZ464
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-54B (100412)
Lab Sample ID: F97652-6 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10357.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2	Z10373.D	2	10/16/12	KW	n/a	n/a	VZ464

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0894	0.0050	mg/l	
108-88-3	Toluene	0.0149	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0925 [a]	0.010	mg/l	
1330-20-7	Xylene (total)	0.114	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	108%	110%	76-127%
2037-26-5	Toluene-D8	99%	100%	86-112%
460-00-4	4-Bromofluorobenzene	101%	102%	84-120%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (100412)		
Lab Sample ID:	F97652-6	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T004542.D	4	10/11/12	FS	10/10/12	OP43922	ST230
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0416	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.0926	0.019	mg/l	
132-64-9	Dibenzofuran	0.0707	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		14-62%
4165-62-2	Phenol-d5	38%		10-40%
118-79-6	2,4,6-Tribromophenol	98%		33-118%
4165-60-0	Nitrobenzene-d5	92%		42-108%
321-60-8	2-Fluorobiphenyl	85%		40-106%
1718-51-0	Terphenyl-d14	95%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-54B (100412)
Lab Sample ID: F97652-6 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034392.D	50	10/17/12	NAF	10/10/12	OP43923	SU1626
Run #2	U034421.D	100	10/17/12	NAF	10/10/12	OP43923	SU1627

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.187	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0096	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0096	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0096	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0096	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0096	mg/l	
218-01-9	Chrysene	ND	0.0096	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0096	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	ND	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0096	mg/l	
91-57-6	2-Methylnaphthalene	0.168	0.048	mg/l	
91-20-3	Naphthalene	3.02 [a]	0.096	mg/l	
85-01-8	Phenanthrene	ND	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	76% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	74% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	78% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (100412)		
Lab Sample ID:	F97652-6	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (100412)		
Lab Sample ID:	F97652-6F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A (100412)		
Lab Sample ID:	F97652-7	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10358.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (100412)		
Lab Sample ID:	F97652-7	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004519.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	26%		10-40%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (100412)		
Lab Sample ID:	F97652-7	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034422.D	1	10/17/12	NAF	10/10/12	OP43923	SU1627
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0059	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.00096	0.00095	mg/l	
86-73-7	Fluorene	0.0044	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.00099	0.00095	mg/l	
91-20-3	Naphthalene	0.0051	0.00095	mg/l	
85-01-8	Phenanthrene	0.0028	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	80% [a]		42-108%
321-60-8	2-Fluorobiphenyl	70% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (100412)		
Lab Sample ID:	F97652-7	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A (100412)		
Lab Sample ID:	F97652-7F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # F97652

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrzenski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: (317) 231-6500
Fax: (317) 231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: DATA CD ONLY, NO HARD COPY
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 1

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site COCs only)*	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb) + Lab Filter and Preserve	COMMENTS	LAB USE
1	TRIP BLANK	2 VOA	———	LAB SUPPLIED	———				X				LAB SUPPLIED	
2	MW-40A(100412)	7	10/04/12	1015	WK	N	G	GW	X	X	X	X		
3	MW-40B(100412)	6	10/04/12	1100	WK	N	G	GW	X	X	X			
4	MW-40C(100412)	6	10/04/12	1140	WK	N	G	GW	X	X	X			

Preserved on Ice

→ WK 10/4/12

Relinquished By:	Date Time: 10/04/12 1430	Received By: FX	Date Time:	Comments & Special Analytical Requirements: * Site COCs for SVOCs; Lab Filter and Preserve Dissolved Metals Samples
Relinquished By: FX	Date Time:	Received By: Courier (ARCADIS)	Date Time: 10-5-12 07:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.8 3.2

5.1 5

F97652: Chain of Custody
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COC # F97652

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: # 941582 9
CSXT Project Name: IN CREOSOTE
CSXT Contact: Paul J. Kwrzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Ste 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061.00001
PM: Bryant Griggs
Email: Bryant.Griggs@arcadis-us.com
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Site COCs Only) *	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb) *	COMMENTS	LAB USE
TRIP BLANK	2 VOAs	———	LAB SUPPLIED ———					X					
MW-54B (100412)	7	10/04/12	0915	WK	N	G	GW	X	X	X	X	LAB SUPPLIED	
MW-29A (100412)	7	10/04/12	1230	WK	N	G	GW	X	X	X	X		

Preserved On Ice

→ WK 10/04/12

S-67

	Date Time:	Received By:	Date Time:
Relinquished By:	10/04/12 1430	FX	
Relinquished By: FX	Date Time:	Received By: J Cope (ARS)	Date Time: 10-5-12 07:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
* Site COCs For SVOCs
* Lab Filter and Preserve Dissolved Metals Samples.

Custody Seal # #
LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

F97652: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97652 CLIENT: AR GROUP PROJECT: 941S899

DATE/TIME RECEIVED: 10-5-12 0930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6686 6435

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.1 2.8
- [ ] CORRECTED TEMPS: 2.5 3.2

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [signature] 10.5.12 REVIEWER SIGNATURE/DATE: [signature] 10/5/12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F97652: Chain of Custody

Page 3 of 3

Southeast ACCUTEST LABORATORIES

10/22/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97653

Sampling Date: 10/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **33**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97653

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97653-1	10/04/12	00:00	AG	10/05/12	AQ	Trip Blank Water	TRIP BLANK
F97653-2	10/04/12	11:25	AG	10/05/12	AQ	Ground Water	MW-44A (100412)
F97653-2F	10/04/12	11:25	AG	10/05/12	AQ	Groundwater Filtered	MW-44A (100412)
F97653-3	10/04/12	12:10	AG	10/05/12	AQ	Ground Water	MW-35A (100412)
F97653-3F	10/04/12	12:10	AG	10/05/12	AQ	Groundwater Filtered	MW-35A (100412)
F97653-4	10/04/12	12:45	AG	10/05/12	AQ	Ground Water	MW-35C (100412)
F97653-4F	10/04/12	12:45	AG	10/05/12	AQ	Groundwater Filtered	MW-35C (100412)
F97653-5	10/04/12	00:00	AG	10/05/12	AQ	Ground Water	DUP-1 (100412)-EG
F97653-5F	10/04/12	00:00	AG	10/05/12	AQ	Groundwater Filtered	DUP-1 (100412)-EG

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97653
Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/18/2012 2:09:21 PM

4 Samples and 1 Trip Blank were collected on 10/04/2012 and were received at Accutest SE on 10/05/2012 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F97653. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ463

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43922

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.
Matrix Spike Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4-Dichlorophenol, 2,4-Dimethylphenol, Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Carbazole are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43922-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43922-MS, OP43922-MSD, OP43922-BS have surrogates outside control limits.

OP43922-BS for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP43944

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97659-1DUP, F97654-2MS, F97654-2MSD, F97659-1DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43944-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43944-DUP, OP43944-MS, OP43944-MSD have surrogates outside control limits.

OP43944-DUP for Nitrobenzene-d5: Outside control limits due to dilution.

OP43944-MS/MSD: Dilution required due to matrix interference.

OP43944-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

OP43944-MS/MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

OP43944-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

OP43944-MS/MSD for Terphenyl-d14: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43923

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97600-28MS, F97600-28MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Outside control limits due to dilution. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s)/Matrix Spike Duplicate Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP43923-MS, OP43923-MSD have surrogates outside control limits.

OP43923-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43923-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43923-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43923-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43923-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43923-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97653-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97653-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97653-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97653-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP43946

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Pentachlorophenol are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Pentachlorophenol, Pyrene are outside control limits for sample OP43946-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43946-MS, OP43946-MSD have surrogates outside control limits.

OP43946-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP43946-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-MS/MSD: Dilution required due to matrix interference.

OP43946-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43946-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43946-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43946-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43946

F97653-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F97653-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F97653-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F97653-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F97653-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F97653-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F97653-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F97653-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
F97653-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
F97653-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
F97653-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
F97653-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23872

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F97654-2DUP, F97654-2MS, F97654-2MSD, F97654-2PS, F97654-2SDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23873

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F97774-1DUP, F97774-1MS, F97774-1MSD, F97774-1PS, F97774-1SDL were used as the QC samples for metals.
RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP23873-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: October 18, 2012
Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: F97653
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/04/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
F97653-1	**TRIP BLANK**					
No hits reported in this sample.						
F97653-2	**MW-44A (100412)**					
Naphthalene		0.0057	0.00095		mg/l	SW846 8270D BY SIM
F97653-2F	**MW-44A (100412)**					
No hits reported in this sample.						
F97653-3	**MW-35A (100412)**					
No hits reported in this sample.						
F97653-3F	**MW-35A (100412)**					
No hits reported in this sample.						
F97653-4	**MW-35C (100412)**					
No hits reported in this sample.						
F97653-4F	**MW-35C (100412)**					
No hits reported in this sample.						
F97653-5	**DUP-1 (100412)-EG**					
No hits reported in this sample.						
F97653-5F	**DUP-1 (100412)-EG**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97653-1	**Date Sampled:**	10/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10359.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (100412)		
Lab Sample ID:	F97653-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10360.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (100412)		
Lab Sample ID:	F97653-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T004520.D	1	10/10/12	FS	10/10/12	OP43922	ST229
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		14-62%
4165-62-2	Phenol-d5	33%		10-40%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	78%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44A (100412)
Lab Sample ID: F97653-2 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U034274.D	1	10/12/12	NAF	10/10/12	OP43923	SU1622
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0057	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	73% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (100412)		
Lab Sample ID:	F97653-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (100412)		
Lab Sample ID:	F97653-2F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (100412)		
Lab Sample ID:	F97653-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10361.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	108%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (100412)		
Lab Sample ID:	F97653-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025940.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A (100412)
Lab Sample ID: F97653-3 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068062.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (100412)		
Lab Sample ID:	F97653-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (100412)		
Lab Sample ID:	F97653-3F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-35C (100412)
Lab Sample ID: F97653-4 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10362.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (100412)		
Lab Sample ID:	F97653-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025941.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-62%
4165-62-2	Phenol-d5	27%		10-40%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (100412)		
Lab Sample ID:	F97653-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068063.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	87% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (100412)		
Lab Sample ID:	F97653-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (100412)		
Lab Sample ID:	F97653-4F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100412)-EG		
Lab Sample ID:	F97653-5	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10363.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	109%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100412)-EG		
Lab Sample ID:	F97653-5	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025942.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	22%		10-40%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100412)-EG		
Lab Sample ID:	F97653-5	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068064.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (100412)-EG		
Lab Sample ID:	F97653-5	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10223
(2) Prep QC Batch: MP23873

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (100412)-EG		
Lab Sample ID:	F97653-5F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97653

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0061
PM: Bryant Gnggs
Email: bryant.gnggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270	Total Metals Gold As+Pb	Diss. Metals Gold As+Pb *	COMMENTS	LAB USE
1	Trip Blank	—	Lab Supplied	—					X					
2	MW-44A (100412)	7	10/4/12	1125	EG	N	G	GW	X	X	X	X		
3	MW-35A (100412)	7	10/4/12	1210	EG	N	G	GW	X	X	X	X		
4	MW-35C (100412)	7	10/4/12	~~1215~~ 1245	~~EG~~ EG	N	G	GW	X	X	X	X		
5	DUP-1(100412)-EG	7	10/4/12	—	EG	N	G	GW	X	X	X	X		

Relinquished By: [signature] — Date Time: 10/4/12 1500 — Received By: Fed Ex
Relinquished By: Fed Ex — Date Time: — Received By: 10.5.12 L.Cobb (ARCADIS)
Relinquished By: — Date Time: — Received By: — Date Time: 10.5.12 07:30
Received By Laboratory: — Date Time: — Lab Remarks: — Date Time:

Comments & Special Analytical Requirements:
* Lab filter & preserve dissolved metals
SUBMIT IN STAND ALONE REPORT

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97653: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97653 CLIENT: AR CADIS PROJECT: 9415 8:9

DATE/TIME RECEIVED: 10-5-12 07:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6686 6702

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR .04
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 9.8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 10-5-12 REVIEWER SIGNATURE/DATE [signature] 10/5/12

NF 12/10

receipt confirmation 122910.xls

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F97653: Chain of Custody

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Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F97653: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

10/22/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97654

Sampling Date: 10/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **17**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97654

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F97654-1	10/04/12	00:00	EG	10/05/12	AQ	Trip Blank Water	TRIP BLANK
F97654-2	10/04/12	13:20	EG	10/05/12	AQ	Ground Water	MW-35B (100412)
F97654-2D	10/04/12	13:20	EG	10/05/12	AQ	Water Dup/MSD	MW-35B (100412)
F97654-2F	10/04/12	13:20	EG	10/05/12	AQ	Groundwater Filtered	MW-35B (100412)
F97654-2FD	10/04/12	13:20	EG	10/05/12	AQ	Groundwater Filtered	MW-35B (100412)
F97654-2FS	10/04/12	13:20	EG	10/05/12	AQ	Groundwater Filtered	MW-35B (100412)
F97654-2S	10/04/12	13:20	EG	10/05/12	AQ	Water Matrix Spike	MW-35B (100412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97654

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/22/2012 11:35:12

1 Sample and 1 Trip Blank were collected on 10/04/2012 and were received at Accutest SE on 10/05/2012 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F97654. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ463

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

F97654-2: Sample was treated with an anti-foaming agent.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43944

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97659-1DUP, F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43944-MSD. Probable cause is due to sample non-homogeneity.
Sample(s) OP43944-DUP, OP43944-MS, OP43944-MSD, F97654-2 have surrogates outside control limits.

OP43944-DUP for Nitrobenzene-d5: Outside control limits due to dilution.

OP43944-MS/MSD: Dilution required due to matrix interference.

OP43944-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

OP43944-MS/MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

OP43944-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

OP43944-MS/MSD for Terphenyl-d14: Outside control limits due to matrix interference.

F97654-2: Dilution required due to matrix interference.

F97654-2 for Terphenyl-d14: Outside control limits due to matrix interference. Confirmed by MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43946

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Pentachlorophenol are outside control limits. Dilution required due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43946

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Pentachlorophenol, Pyrene are outside control limits for sample OP43946-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) F97654-2, OP43946-MS, OP43946-MSD have surrogates outside control limits.

OP43946-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP43946-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-MS/MSD: Dilution required due to matrix interference.

OP43946-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43946-MS/MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43946-MS/MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43946-MS/MSD for Terphenyl-d14: Outside control limits due to dilution.

F97654-2: Dilution required due to matrix interference.

F97654-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

F97654-2 for Nitrobenzene-d5: Outside control limits due to dilution.

F97654-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

F97654-2 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23867

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2FDUP, F97654-2FMS, F97654-2FMSD, F97654-2FPS, F97654-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP23872

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2DUP, F97654-2MS, F97654-2MSD, F97654-2PS, F97654-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: October 22, 2012

Summary of Hits

Job Number: F97654
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/04/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

F97654-1 **TRIP BLANK**

No hits reported in this sample.

F97654-2 **MW-35B (100412)**

No hits reported in this sample.

F97654-2F **MW-35B (100412)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97654-1	**Date Sampled:**	10/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10345.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (100412)		
Lab Sample ID:	F97654-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z10346.D	1	10/15/12	KW	n/a	n/a	VZ463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	110%		84-120%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (100412)		
Lab Sample ID:	F97654-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X025950.D	10	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.048	mg/l	
95-48-7	2-Methylphenol	ND	0.048	mg/l	
	3&4-Methylphenol	ND	0.048	mg/l	
108-95-2	Phenol	ND	0.048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.048	mg/l	
86-74-8	Carbazole	ND	0.048	mg/l	
132-64-9	Dibenzofuran	ND	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%		14-62%
4165-62-2	Phenol-d5	12%		10-40%
118-79-6	2,4,6-Tribromophenol	44%		33-118%
4165-60-0	Nitrobenzene-d5	43%		42-108%
321-60-8	2-Fluorobiphenyl	49%		40-106%
1718-51-0	Terphenyl-d14	7% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to matrix interference. Confirmed by MS/MSD.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (100412)		
Lab Sample ID:	F97654-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	W068068.D	10	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0095	mg/l	
83-32-9	Acenaphthene	ND	0.0095	mg/l	
208-96-8	Acenaphthylene	ND	0.0095	mg/l	
120-12-7	Anthracene	ND	0.0095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	ND	0.0095	mg/l	
86-73-7	Fluorene	ND	0.0095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0095	mg/l	
91-20-3	Naphthalene	ND	0.0095	mg/l	
85-01-8	Phenanthrene	ND	0.0095	mg/l	
129-00-0	Pyrene	ND	0.0095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (100412)		
Lab Sample ID:	F97654-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (100412)		
Lab Sample ID:	F97654-2F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23867

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # F97654

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kwranski
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 1100
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072-0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only — NO HARD COPY
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals Cd Cr Pb As + Pb	Diss. Metals Cd Cr Pb As + Pb *	COMMENTS	LAB USE
1 Trip Blank	2-VOA	— Lab Supplied —							X					
2 MW-35B (100412)	21	10/4/12	1320	EG	N	G	GW		X	X	X	X	MS/MSD**	

Note ➡ 1 0 2 0

Relinquished By:	Date Time:	Received By:	Date Time:
Emily Shue	10/4/12 1500	FedEx	
Relinquished By: FX	Date Time:	Received By: Leonne (ARCADIS)	Date Time: 10-5-12 07:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal #; LAB Log Number #

Comments & Special Analytical Requirements:
* Lab filter & preserve diss. metals
SUBMIT IN STAND ALONE REPORT
** Sample contains tracer dye

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.0

5.1 5

F97654: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97654 CLIENT: ARCADIS PROJECT: 9413 829

DATE/TIME RECEIVED: 10-5-12 09:20 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6686 6913

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 10-5-12 REVIEWER SIGNATURE/DATE 10/05/12

NF 12/10

receipt confirmation 122910.xls

5.1 5

F97654: Chain of Custody

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Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

F97654: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

10/18/12



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0061

Accutest Job Number: F97655

Sampling Date: 10/04/12

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), AK, AR, GA, KY, MA, NV, OK, UT, VA, WA, WI

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Sample Summary

CSX Transportation

Job No: F97655

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0061

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F97655-1	10/04/12	00:00	EG	10/05/12	AQ	Trip Blank Water	TRIP BLANK
F97655-2	10/04/12	09:10	EG	10/05/12	AQ	Ground Water	MW-49A (100412)
F97655-2F	10/04/12	09:10	EG	10/05/12	AQ	Groundwater Filtered	MW-49A (100412)
F97655-3	10/04/12	09:40	EG	10/05/12	AQ	Ground Water	MW-49B (100412)
F97655-3F	10/04/12	09:40	EG	10/05/12	AQ	Groundwater Filtered	MW-49B (100412)
F97655-4	10/04/12	10:15	EG	10/05/12	AQ	Ground Water	MW-49C (100412)
F97655-4F	10/04/12	10:15	EG	10/05/12	AQ	Groundwater Filtered	MW-49C (100412)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job:** F97655

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 10/18/2012 10:45:15

3 Sample(s) and 1 Trip Blank were collected on 10/04/2012 and were received at Accutest SE on 10/05/2012 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F97655. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ462

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97645-2MS, F97645-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP43944

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD, F97659-1DUP were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Carbazole, Dibenzofuran are outside control limits. Dilution required due to matrix interference.

RPD(s) for MSD for Carbazole, Dibenzofuran are outside control limits for sample OP43944-MSD. Probable cause is due to sample non-homogeneity.
Sample(s) OP43944-DUP, OP43944-MS, OP43944-MSD have surrogates outside control limits.

OP43944-DUP for Nitrobenzene-d5: Outside control limits due to dilution.

OP43944-MS: Dilution required due to matrix interference.

OP43944-MS for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

OP43944-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.

OP43944-MS for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

OP43944-MS for Terphenyl-d14: Outside control limits due to matrix interference.

OP43944-MSD for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

OP43944-MSD: Dilution required due to matrix interference.

OP43944-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.

OP43944-MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

OP43944-MSD for Terphenyl-d14: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP43946

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2MS, F97654-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, are outside control limits. Dilution required due to matrix interference.

RPD(s) for MSD for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Pentachlorophenol, Pyrene are outside control limits for sample OP43946-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP43946-MS, OP43946-MSD have surrogates outside control limits.

OP43946-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Pentachlorophenol: Spike recoveries corrected for actual spike amount.

OP43946-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP43946-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP43946-MS: Dilution required due to matrix interference.

OP43946-MS for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43946-MS for Nitrobenzene-d5: Outside control limits due to dilution.

OP43946-MS for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43946-MS for Terphenyl-d14: Outside control limits due to dilution.

OP43946-MSD: Dilution required due to matrix interference.

OP43946-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP43946-MSD for Nitrobenzene-d5: Outside control limits due to dilution.

OP43946-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP43946-MSD for Terphenyl-d14: Outside control limits due to dilution.

F97655-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97655-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97655-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97655-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97655-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97655-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97655-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97655-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

F97655-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

F97655-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

F97655-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

F97655-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23872

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F97654-2DUP, F97654-2MS, F97654-2MSD, F97654-2PS, F97654-2SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: October 18, 2012

Summary of Hits

Job Number: F97655
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 10/04/12

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

F97655-1 **TRIP BLANK**

No hits reported in this sample.

F97655-2 **MW-49A (100412)**

No hits reported in this sample.

F97655-2F **MW-49A (100412)**

No hits reported in this sample.

F97655-3 **MW-49B (100412)**

No hits reported in this sample.

F97655-3F **MW-49B (100412)**

No hits reported in this sample.

F97655-4 **MW-49C (100412)**

No hits reported in this sample.

F97655-4F **MW-49C (100412)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F97655-1	**Date Sampled:**	10/04/12
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10324.D	1	10/13/12	KW	n/a	n/a	VZ462
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (100412)		
Lab Sample ID:	F97655-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10325.D	1	10/13/12	KW	n/a	n/a	VZ462
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-49A (100412)
Lab Sample ID: F97655-2 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025943.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	24%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-49A (100412)
Lab Sample ID: F97655-2 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068065.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (100412)		
Lab Sample ID:	F97655-2	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49A (100412)		
Lab Sample ID:	F97655-2F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (100412)		
Lab Sample ID:	F97655-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10326.D	1	10/13/12	KW	n/a	n/a	VZ462
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (100412)		
Lab Sample ID:	F97655-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025944.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-62%
4165-62-2	Phenol-d5	23%		10-40%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (100412)		
Lab Sample ID:	F97655-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068066.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (100412)		
Lab Sample ID:	F97655-3	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (100412)		
Lab Sample ID:	F97655-3F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (100412)		
Lab Sample ID:	F97655-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z10327.D	1	10/13/12	KW	n/a	n/a	VZ462
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	109%		84-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (100412)		
Lab Sample ID:	F97655-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X025945.D	1	10/11/12	FS	10/11/12	OP43944	SX1252
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl benzyl phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-62%
4165-62-2	Phenol-d5	28%		10-40%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-49C (100412)
Lab Sample ID: F97655-4 **Date Sampled:** 10/04/12
Matrix: AQ - Ground Water **Date Received:** 10/05/12
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W068067.D	1	10/16/12	MG	10/11/12	OP43946	SW3299
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49C (100412)		
Lab Sample ID:	F97655-4	**Date Sampled:**	10/04/12
Matrix:	AQ - Ground Water	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49C (100412)		
Lab Sample ID:	F97655-4F	**Date Sampled:**	10/04/12
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/05/12
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	10/11/12	10/11/12	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA10222
(2) Prep QC Batch: MP23872

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # F97655

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Paul J. Kurzanski
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53246

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN0000 72.0061
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days
- ☒ Standard 14 Days
- ☐ Other

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: Data CD only NO HARD COPY
- ☑ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Pres. Code: Note ➡ 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270	Total Metals Aq Pb	Diss. Metals Aq Pb *	COMMENTS	LAB USE
1	Trip Blank	2 VOAs	Lab Supplied						X					
2	MW-49A (100412)	7	10/4/12	910	EG	N	G	GW	X	X	X	X		
3	MW-49B (100412)	7	10/4/12	940	EG	N	G	GW	X	X	X	X		
4	MW-49C (100412)	7	10/4/12	1015	EG	N	G	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	10/4/12 1500	Received By: FedEx		* Lab filter & preserve dissolved metals
Relinquished By:	Date Time:	Received By: J. Cooke (ALSK)	Date Time: 10.5.12 09:30	Submit in STAND ALONE REPORT
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: ☐ Yes ☐ No Custody Intact	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.6 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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F97655: Chain of Custody
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RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F97655 CLIENT: ACADIS PROJECT: 9415829

DATE/TIME RECEIVED: 10-5-12 09:30 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 7957 6686 6902

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE PRESENT

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +04
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE JC 10-5-12 REVIEWER SIGNATURE/DATE [signature] 10/05/12

NF 12/10

receipt confirmation 122910.xls

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Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

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F97655: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

07/24/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA25986

Sampling Date: 07/13/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **29**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA25986

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA25986-1	07/13/15	00:00	RW	07/14/15	AQ	Trip Blank Water	TB-2 (071315)RW
FA25986-2	07/13/15	16:30	RW	07/14/15	AQ	Ground Water	MW-48A (071315)
FA25986-2D	07/13/15	16:30	RW	07/14/15	AQ	Water Dup/MSD	MW-48A (071315)
FA25986-2F	07/13/15	16:30	RW	07/14/15	AQ	Groundwater Filtered	MW-48A (071315)
FA25986-2FD	07/13/15	16:30	RW	07/14/15	AQ	Water Dup/MSD	MW-48A (071315)
FA25986-2FS	07/13/15	16:30	RW	07/14/15	AQ	Water Matrix Spike	MW-48A (071315)
FA25986-2S	07/13/15	16:30	RW	07/14/15	AQ	Water Matrix Spike	MW-48A (071315)
FA25986-3	07/13/15	17:08	RW	07/14/15	AQ	Ground Water	MW-48B (071315)
FA25986-3F	07/13/15	17:08	RW	07/14/15	AQ	Groundwater Filtered	MW-48B (071315)
FA25986-4	07/13/15	00:00	RW	07/14/15	AQ	Ground Water	DUP-2 (071315)RW
FA25986-4F	07/13/15	00:00	RW	07/14/15	AQ	Groundwater Filtered	DUP-2 (071315)RW

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA25986

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/23/2015 4:15:06 PM

3 Sample(s), 1 Trip Blank(s) were collected on 07/13/2015 and were received at Accutest SE on 07/14/2015 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA25986. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3508

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2MS, FA25986-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Sample(s) FA25986-2MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA25986-2: Dilution required due to matrix interference (non-target compounds above calibration range).

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56902

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

FA25986-2: Dilution required due to matrix interference.

OP56902-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56861

Sample(s) FA25986-2 has surrogates outside control limits. Probable cause is due to matrix interference.

FA25986-2: Confirmation run.

FA25986-2 for Nitrobenzene-d5: Outside control limits due to dilution.
FA25986-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.
FA25986-2 for Terphenyl-d14: Outside control limits due to dilution.
FA25986-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.
Sample(s) FA25986-3, FA25986-4 have surrogates outside control limits.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

FA25986-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA25986-3 for Terphenyl-d14: Outside control limits due to dilution.

FA25986-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA25986-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA25986-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA25986-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA25986-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA25986-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA25986-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA25986-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA25986-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA25986-4 for Nitrobenzene-d5: Outside control limits due to dilution.

FA25986-4 for Terphenyl-d14: Outside control limits due to dilution.

FA25986-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA25986-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA25986-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA25986-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29164

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2DUP, FA25986-2MS, FA25986-2MSD, FA25986-2PS, FA25986-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29164-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29180

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2FDUP, FA26007-2FMS, FA26007-2FMSD, FA26007-2FPS, FA26007-2FSDL were used as the QC samples for metals.

MP29180-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 23, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA25986-2MS	MSVOA	M82836.D	1,3-Dichloropropane, 2-Butanone (MEK), Carbon Tetrachloride, Tert-Butyl Alcohol, Tetrahydrofuran
FA25986-2MSD	MSVOA	M82837.D	Carbon Tetrachloride, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
FA25986-3	MSSEMI	U051775.D	Benzo(k)fluoranthene
FA25986-4	MSSEMI	U051776.D	Anthracene, Benzo(k)fluoranthene
OP56888-BS	MSSEMI	X040960.D	Caprolactam
OP56902-BS	MSSEMI	X040993.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3688-CC3685	MSSEMI	L0683061.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam
VM3497-IC3497	MSVOA	M82604.D	1,4-Dichlorobenzene, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82605.D	Carbon Tetrachloride, Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82606.D	Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82608.D	Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82609.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3497-ICC3497	MSVOA	M82607.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran,
VM3497-ICV3497	MSVOA	M82611.D	Dibromofluoromethane
VM3497-ICV3497	MSVOA	M82612.D	Carbon Tetrachloride, Di-Isopropyl Ether, Tetrahydrofuran,
VM3508-BS	MSVOA	M82817.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran
VM3508-CC3497	MSVOA	M82813.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran

35 Manual Integrations were found for FA25986

Summary of Hits

Job Number: FA25986
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA25986-1	**TB-2 (071315)RW**					
No hits reported in this sample.						
FA25986-2	**MW-48A (071315)**					
Benzene [a]		0.0317	0.013		mg/l	SW846 8260B
Toluene [a]		0.100	0.013		mg/l	SW846 8260B
Ethylbenzene [a]		0.0442	0.013		mg/l	SW846 8260B
Xylene (total) [a]		0.158	0.038		mg/l	SW846 8260B
Carbazole [b]		0.147	0.054		mg/l	SW846 8270D
Dibenzofuran [b]		0.296	0.054		mg/l	SW846 8270D
Arsenic		0.0156	0.010		mg/l	SW846 6010C
FA25986-2F	**MW-48A (071315)**					
Arsenic		0.0167	0.010		mg/l	SW846 6010C
FA25986-3	**MW-48B (071315)**					
Benzene		0.0078	0.0050		mg/l	SW846 8260B
Toluene		0.0111	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0067	0.0050		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0088	0.0048		mg/l	SW846 8270D
Carbazole		0.0245	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0091	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0096	0.00096		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0015	0.00096		mg/l	SW846 8270D BY SIM
Anthracene		0.0014	0.00096		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.00026	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00021	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0014	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.0090	0.00096		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0172	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.246	0.020		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0050	0.00096		mg/l	SW846 8270D BY SIM
Pyrene		0.0013	0.00096		mg/l	SW846 8270D BY SIM
FA25986-3F	**MW-48B (071315)**					
No hits reported in this sample.						
FA25986-4	**DUP-2 (071315)RW**					
Benzene		0.0080	0.0050		mg/l	SW846 8260B

Summary of Hits

Job Number: FA25986
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Toluene		0.0114	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0060	0.0050		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0092	0.0048		mg/l	SW846 8270D
Carbazole		0.0112	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0069	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0086	0.00095		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0014	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0049	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0156	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.255	0.019		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0033	0.00095		mg/l	SW846 8270D BY SIM

FA25986-4F **DUP-2 (071315)RW**

No hits reported in this sample.

(a) Dilution required due to matrix interference (non-target compounds above calibration range).
(b) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071315)RW		
Lab Sample ID:	FA25986-1	**Date Sampled:**	07/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82819.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (071315)		
Lab Sample ID:	FA25986-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M82822.D	2.5	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0317	0.013	mg/l	
108-88-3	Toluene	0.100	0.013	mg/l	
100-41-4	Ethylbenzene	0.0442	0.013	mg/l	
1330-20-7	Xylene (total)	0.158	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (071315)		
Lab Sample ID:	FA25986-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X040997.D	10	07/21/15	MV	07/20/15	OP56902	SX1891
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.054	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.054	mg/l	
95-48-7	2-Methylphenol	ND	0.054	mg/l	
	3&4-Methylphenol	ND	0.054	mg/l	
108-95-2	Phenol	ND	0.054	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.054	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.054	mg/l	
86-74-8	Carbazole	0.147	0.054	mg/l	
132-64-9	Dibenzofuran	0.296	0.054	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.054	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	43%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (071315)		
Lab Sample ID:	FA25986-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U051780.D	200	07/20/15	MG	07/16/15	OP56861	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Confirmation run.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (071315)		
Lab Sample ID:	FA25986-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0156	0.010	mg/l	1	07/15/15	07/15/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/15/15	07/15/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12528
(2) Prep QC Batch: MP29164

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48A (071315)		
Lab Sample ID:	FA25986-2F	**Date Sampled:**	07/13/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0167	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (071315)		
Lab Sample ID:	FA25986-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82820.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0078	0.0050	mg/l	
108-88-3	Toluene	0.0111	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0067	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (071315)		
Lab Sample ID:	FA25986-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040962.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0088	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0245	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0091	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	54%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (071315)
Lab Sample ID: FA25986-3 **Date Sampled:** 07/13/15
Matrix: AQ - Ground Water **Date Received:** 07/14/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051775.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2	U051843.D	20	07/22/15	MG	07/18/15	OP56889	SU2358

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0096	0.00096	mg/l	
208-96-8	Acenaphthylene	0.0015	0.00096	mg/l	
120-12-7	Anthracene	0.0014	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	0.00026	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	0.00021	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0014	0.00096	mg/l	
86-73-7	Fluorene	0.0090	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0172	0.00096	mg/l	
91-20-3	Naphthalene	0.246 [a]	0.020	mg/l	
85-01-8	Phenanthrene	0.0050	0.00096	mg/l	
129-00-0	Pyrene	0.0013	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	56% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	55% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	59% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (071315)		
Lab Sample ID:	FA25986-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (071315)		
Lab Sample ID:	FA25986-3F	**Date Sampled:**	07/13/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID: DUP-2 (071315)RW
Lab Sample ID: FA25986-4 **Date Sampled:** 07/13/15
Matrix: AQ - Ground Water **Date Received:** 07/14/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82821.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0080	0.0050	mg/l	
108-88-3	Toluene	0.0114	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0060	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (071315)RW		
Lab Sample ID:	FA25986-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040963.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0092	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0112	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0069	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	62%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-2 (071315)RW
Lab Sample ID: FA25986-4 **Date Sampled:** 07/13/15
Matrix: AQ - Ground Water **Date Received:** 07/14/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051776.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2	U051844.D	20	07/22/15	MG	07/18/15	OP56889	SU2358

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0086	0.00095	mg/l	
208-96-8	Acenaphthylene	0.0014	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0049	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0156	0.00095	mg/l	
91-20-3	Naphthalene	0.255 [a]	0.019	mg/l	
85-01-8	Phenanthrene	0.0033	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	58% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	55% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	54% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2 (071315)RW		
Lab Sample ID:	FA25986-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2 (071315)RW		
Lab Sample ID:	FA25986-4F	**Date Sampled:**	07/13/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA25986

CSX TRANSPORTATION — CHAIN OF CUSTODY — COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582S
CSXT Project Name: IN CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: EN 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON. ST. STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0004
PM: Bryant Gribbs
Email: BRYAT.GRIBBS@ARCADIS-US.COM
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [X] Standard 6-13 Days — Specify # Days 6
- [ ] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD only, AD Mann Log
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (SIDE CAR only)	Total Metals 6010 As+Pb only	Dissolved Metals 6010 As+Pb (Lab Filtered + acidified)	COMMENTS	LAB USE
TB-2 (071315) RW	3	7-13-15	—	—	—	—	LIQ	X					1
MW-48A (071315)	21		1630	RW	N	GRAB	GW	X	X	X	X		2
MW-48B (071315)	7		1708	RW	N	GRAB	GW	X	X	X	X		3
Dup-2 (071315) RW	7		—	RW	N	GRAB	GW	X	X	X	X		4

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7-13-15 1630	FED-EX		- MANN PROPERTY
Relinquished By:	07/14/15 945			- PROVIDE IN SEPARATE REPORT
Relinquished By:				- SEE TASK 2 FOR SITE LOG
Received By Laboratory:		Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 2.6 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA25986: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA25986 CLIENT: Arcadis PROJECT: IW creosote

DATE/TIME RECEIVED: 07-14-15 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8088 8916 9347

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [Y] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [Y] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [Y] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

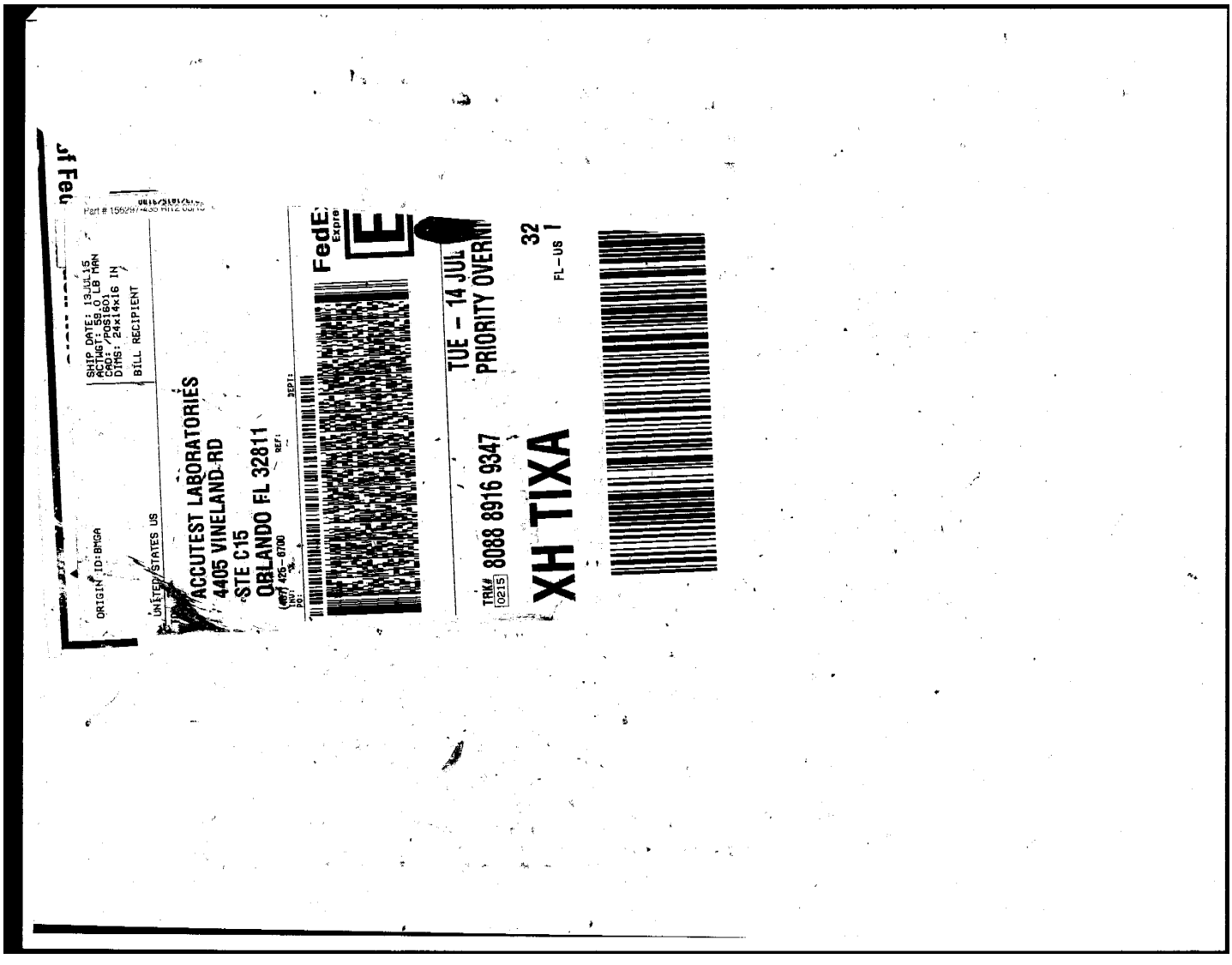
TECHNICIAN SIGNATURE/DATE [signature] 07-14-15 REVIEWER SIGNATURE/DATE [signature] 7-14-15

NF 10/14 receipt confirmation 102914.xls

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FA25986: Chain of Custody

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FA25986: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/24/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26007

Sampling Date: 07/13/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26007

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26007-1	07/13/15	00:00	RW	07/14/15	AQ	Trip Blank Water	TB-1 (071315)RW
FA26007-2	07/13/15	14:58	RW	07/14/15	AQ	Ground Water	MW-53A (071315)
FA26007-2D	07/13/15	14:58	RW	07/14/15	AQ	Water Dup/MSD	MW-53A (071315)
FA26007-2DF	07/13/15	14:58	RW	07/14/15	AQ	Water Dup/MSD	MW-53A (071315)
FA26007-2F	07/13/15	14:58	RW	07/14/15	AQ	Ground Water	MW-53A (071315)
FA26007-2S	07/13/15	14:58	RW	07/14/15	AQ	Water Matrix Spike	MW-53A (071315)
FA26007-2SF	07/13/15	14:58	RW	07/14/15	AQ	Water Matrix Spike	MW-53A (071315)
FA26007-3	07/13/15	15:23	RW	07/14/15	AQ	Ground Water	MW-53B (071315)
FA26007-3F	07/13/15	15:23	RW	07/14/15	AQ	Ground Water	MW-53B (071315)
FA26007-4	07/13/15	00:00	RW	07/14/15	AQ	Ground Water	DUP-1 (071315)RW
FA26007-4F	07/13/15	00:00	RW	07/14/15	AQ	Ground Water	DUP-1 (071315)RW

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26007

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/23/2015 5:19:36 PM

3 Sample(s), 1 Trip Blank(s) were collected on 07/13/2015 and were received at Accutest SE on 07/14/2015 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of FA26007. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3508

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26007-2MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56902-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26007-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26007-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26007-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26007-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP56903

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56903-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56903

OP56903-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26007-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26007-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26007-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26007-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26007-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26007-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26007-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26007-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29168

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2DUP, FA26007-2MS, FA26007-2MSD, FA26007-2PS, FA26007-2SDL were used as the QC samples for metals.

MP29168-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** MP29180

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2FDUP, FA26007-2FMS, FA26007-2FMSD, FA26007-2FPS, FA26007-2FSDL were used as the QC samples for metals.

FA26007-2F for Lead: Elevated reporting limit(s) due to matrix interference.

MP29180-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 23, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26007-2MS	MSVOA	M82834.D	Carbon Tetrachloride, Tetrahydrofuran
FA26007-2MSD	MSVOA	M82835.D	Carbon Tetrachloride, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
FA26007-3	MSSEMI	W087889.D	Benzo(k)fluoranthene
FA26007-4	MSSEMI	W087890.D	Benzo(k)fluoranthene
OP56888-BS	MSSEMI	X040960.D	Caprolactam
OP56902-BS	MSSEMI	X040993.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3688-CC3685	MSSEMI	L0683061.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam
VM3497-IC3497	MSVOA	M82604.D	1,4-Dichlorobenzene, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82605.D	Carbon Tetrachloride, Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82606.D	Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82608.D	Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Tetrahydrofuran, trans-1,4-Dichloro-2-Butene
VM3497-IC3497	MSVOA	M82609.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3497-ICC3497	MSVOA	M82607.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran,
VM3497-ICV3497	MSVOA	M82611.D	Dibromofluoromethane
VM3497-ICV3497	MSVOA	M82612.D	Carbon Tetrachloride, Di-Isopropyl Ether, Tetrahydrofuran,
VM3508-BS	MSVOA	M82817.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran
VM3508-CC3497	MSVOA	M82813.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran

35 Manual Integrations were found for FA26007

Summary of Hits

Job Number: FA26007
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/13/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26007-1	**TB-1 (071315)RW**					
No hits reported in this sample.						
FA26007-2	**MW-53A (071315)**					
No hits reported in this sample.						
FA26007-2F	**MW-53A (071315)**					
No hits reported in this sample.						
FA26007-3	**MW-53B (071315)**					
Benzo(a)pyrene		0.00022	0.00021		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00027	0.00021		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00025	0.00021		mg/l	SW846 8270D BY SIM
Chrysene		0.00024	0.00021		mg/l	SW846 8270D BY SIM
FA26007-3F	**MW-53B (071315)**					
No hits reported in this sample.						
FA26007-4	**DUP-1 (071315)RW**					
No hits reported in this sample.						
FA26007-4F	**DUP-1 (071315)RW**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071315)RW		
Lab Sample ID:	FA26007-1	**Date Sampled:**	07/13/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82823.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	112%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (071315)		
Lab Sample ID:	FA26007-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82824.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		83-118%
17060-07-0	1,2-Dichloroethane-D4	94%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (071315)
Lab Sample ID: FA26007-2 **Date Sampled:** 07/13/15
Matrix: AQ - Ground Water **Date Received:** 07/14/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040964.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	52%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	62%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (071315)		
Lab Sample ID:	FA26007-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051777.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	49% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (071315)		
Lab Sample ID:	FA26007-2	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12531
(2) Prep QC Batch: MP29168

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (071315)		
Lab Sample ID:	FA26007-2F	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	< 0.025	0.025	mg/l	5	07/20/15	07/21/15	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA12535
(2) Instrument QC Batch: MA12540
(3) Prep QC Batch: MP29180

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (071315)		
Lab Sample ID:	FA26007-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82825.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	87%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (071315)		
Lab Sample ID:	FA26007-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040998.D	1	07/21/15	MV	07/20/15	OP56902	SX1891
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0053	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0053	mg/l	
95-48-7	2-Methylphenol	ND	0.0053	mg/l	
	3&4-Methylphenol	ND	0.0053	mg/l	
108-95-2	Phenol	ND	0.0053	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0053	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0053	mg/l	
86-74-8	Carbazole	ND	0.0053	mg/l	
132-64-9	Dibenzofuran	ND	0.0053	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0053	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (071315)		
Lab Sample ID:	FA26007-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087889.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	ND	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	mg/l	
50-32-8	Benzo(a)pyrene	0.00022	0.00021	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00027	0.00021	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00025	0.00021	mg/l	
218-01-9	Chrysene	0.00024	0.00021	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	ND	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	ND	0.0011	mg/l	
85-01-8	Phenanthrene	ND	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (071315)		
Lab Sample ID:	FA26007-3	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12531
(2) Prep QC Batch: MP29168

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (071315)		
Lab Sample ID:	FA26007-3F	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071315)RW		
Lab Sample ID:	FA26007-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82826.D	1	07/16/15	RB	n/a	n/a	VM3508
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071315)RW		
Lab Sample ID:	FA26007-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040999.D	1	07/21/15	MV	07/20/15	OP56902	SX1891
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0052	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0052	mg/l	
95-48-7	2-Methylphenol	ND	0.0052	mg/l	
	3&4-Methylphenol	ND	0.0052	mg/l	
108-95-2	Phenol	ND	0.0052	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0052	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0052	mg/l	
86-74-8	Carbazole	ND	0.0052	mg/l	
132-64-9	Dibenzofuran	ND	0.0052	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071315)RW		
Lab Sample ID:	FA26007-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087890.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	mg/l	
218-01-9	Chrysene	ND	0.00021	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	70% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071315)RW		
Lab Sample ID:	FA26007-4	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12531
(2) Prep QC Batch: MP29168

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071315)RW		
Lab Sample ID:	FA26007-4F	**Date Sampled:**	07/13/15
Matrix:	AQ - Ground Water	**Date Received:**	07/14/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26007

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 OF 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: ~~PAUL J. MARTINSKY~~ DAN BYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST., #1000
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0074
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6500 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [X] Standard 6-13 Days
- [ ] Specify # Days 6
- [ ] ~~Standard 14 Days~~
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY, NO HARD COPY!
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (SITE COCs only)	TOTAL METALS: 6010 ARSENIC + LEAD ONLY	DISSOLVED METALS: 6010 ARSENIC + LEAD ONLY (filter + preserve in field)	COMMENTS	LAB USE
1	TB-1 (071315) RW	3	7-13-15	—	—	—	—	LIQ					TRIP BLANK	
2	MW-53A (071315)	21		1458	RW	N	GRAB	GW	X	X	X	X	MS/MSD	
3	MW-53B (071315)	7		1523	RW	N	GRAB	GW	X	X	X	X		
4	Dup-1 (071315) RW	7	↓	—	RW	N	GRAB	GW	X	X	X	X	FIELD DUP	
								~~GW~~	X					

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7-13-15 1800	Received By: FX	Date Time:	- Busch Property - Provide in Separate Report - See Table 1 for Site COCs
Relinquished By: FX	Date Time:	Received By: J. Cooper (ARS)	Date Time: 7.14.15 15:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.8

5.1 5

FA26007: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26007 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 7-14-15 15:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8088 8916 9358

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 4.0
- [ ] CORRECTED TEMPS: 3.8

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [X] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 3

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: RECEIVED 1 AMBER (8270) BROKEN FOR SAMPLE #2

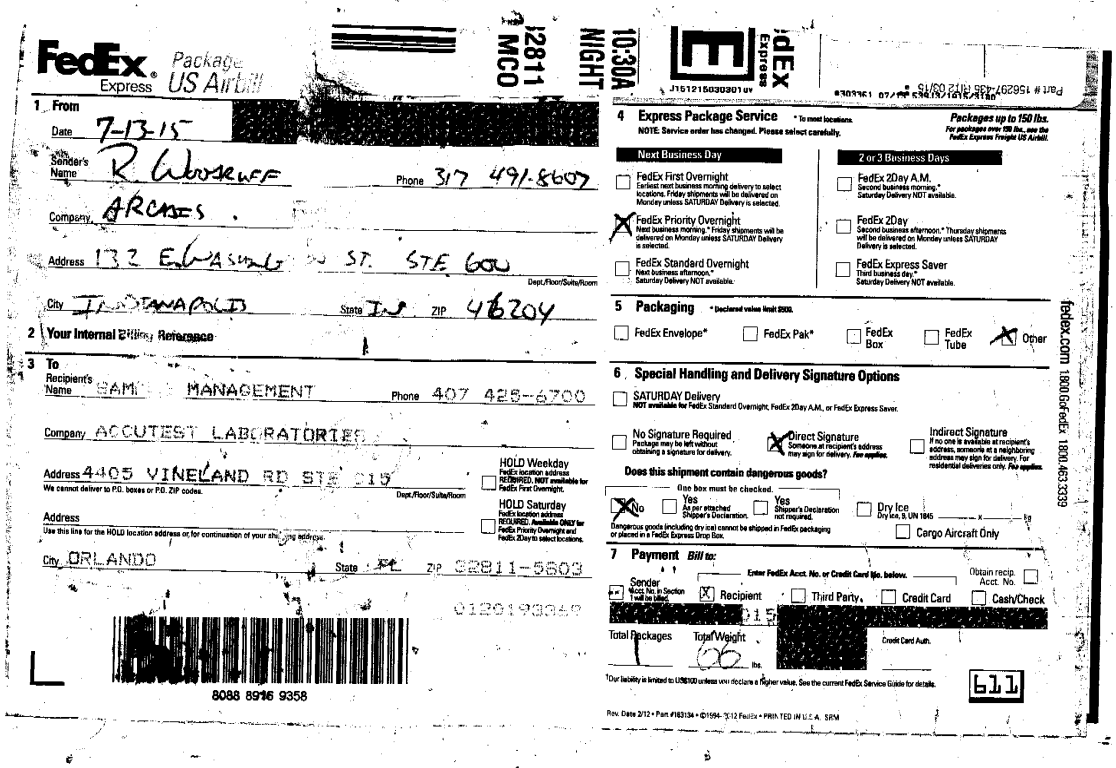
TECHNICIAN SIGNATURE/DATE 7-15-15 REVIEWER SIGNATURE/DATE 07-15-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26007: Chain of Custody
Page 2 of 3



FedEx Express Package US Airbill

2811 MCO

10:30A NIGHT

1 From

Date 7-13-15

Sender's Name R Woskoff Phone 317 491-8607

Company ARCHES

Address 132 E Washington St Ste 600

Dept./Floor/Suite/Room

City Indianapolis State IN ZIP 46204

2 Your Internal Billing Reference

3 To

Recipient's Name SAM MANAGEMENT Phone 407 425-6700

Company ACCUTEST LABORATORIES

Address 4405 VINELAND RD STE 215

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City ORLANDO State FL ZIP 32811-5503

0120193349

8088 8916 9358

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., see the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [X] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 — x — kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

Sender Acct. No. in Section 7 will be billed

- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages 1 Total Weight 06 lbs.

Credit Card Auth.

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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fedex.com 1.800.GoFedEx 1.800.463.3339

5.1

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FA26007: Chain of Custody

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Southeast
ACCUTEST
LABORATORIES

07/24/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26016

Sampling Date: 07/14/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **39**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26016

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA26016-1	07/14/15	00:00	RW	07/15/15	AQ	Trip Blank Water	TB-3 (071415)RW
FA26016-2	07/14/15	13:06	RW	07/15/15	AQ	Ground Water	MW-45A (071415)
FA26016-2F	07/14/15	13:06	RW	07/15/15	AQ	Groundwater Filtered	MW-45A (071415)
FA26016-3	07/14/15	13:30	RW	07/15/15	AQ	Ground Water	MW-45B (071415)
FA26016-3F	07/14/15	13:30	RW	07/15/15	AQ	Groundwater Filtered	MW-45B (071415)
FA26016-4	07/14/15	14:02	RW	07/15/15	AQ	Ground Water	MW-45C (071415)
FA26016-4F	07/14/15	14:02	RW	07/15/15	AQ	Groundwater Filtered	MW-45C (071415)
FA26016-5	07/14/15	14:40	RW	07/15/15	AQ	Ground Water	MW-36C (071415)
FA26016-5F	07/14/15	14:40	RW	07/15/15	AQ	Groundwater Filtered	MW-36C (071415)
FA26016-6	07/14/15	15:16	RW	07/15/15	AQ	Ground Water	MW-51B (071415)
FA26016-6F	07/14/15	15:16	RW	07/15/15	AQ	Groundwater Filtered	MW-51B (071415)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26016

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/23/2015 10:16:39

5 Sample(s), 1 Trip Blank(s) were collected on 07/14/2015 and were received at Accutest SE on 07/15/2015 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA26016. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VP1274

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26111-2MS, FA26111-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VZ1348

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26016-2MS, FA26016-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56902-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56903

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56903-BS: Insufficient sample for MS/MSD.

OP56903-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26016-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26016-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26016-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26016-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26016-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26016-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26016-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26016-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56903

FA26016-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26016-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26016-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26016-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26016-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26016-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26016-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29176

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2FDUP, FA26026-2FMB, FA26026-2FMS, FA26026-2FMSD, FA26026-2FPS, FA26026-2FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 23, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26016-4	MSSEMI	W087893.D	Anthracene
FA26016-5	MSSEMI	W087895.D	Anthracene
FA26016-6	MSSEMI	W087896.D	Anthracene, Benzo(k)fluoranthene
FA26111-2MS	MSVOA	P34306.D	1,2-Dichloroethane-D4, 1,4-Dioxane, Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran, Trichlorofluoromethane
FA26111-2MSD	MSVOA	P34307.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
OP56902-BS	MSSEMI	X040993.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3688-CC3685	MSSEMI	L0683061.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam
VP1270-IC1270	MSVOA	P34163.D	2-Butanone (MEK), Acrolein, Carbon Tetrachloride, Freon 113, Tert-Butyl Alcohol, Tetrahydrofuran,
VP1270-IC1270	MSVOA	P34164.D	Carbon Tetrachloride, Methyl Chloride, Tetrahydrofuran
VP1270-IC1270	MSVOA	P34165.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
VP1270-IC1270	MSVOA	P34167.D	Carbon Tetrachloride, Tetrahydrofuran
VP1270-IC1270	MSVOA	P34168.D	1,4-Dioxane, Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICC1270	MSVOA	P34166.D	Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICV1270	MSVOA	P34170.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICV1270	MSVOA	P34171.D	1,2-Dichloroethane-D4, Hexane
VP1274-BS	MSVOA	P34283.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
VP1274-CC1270	MSVOA	P34282.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran

34 Manual Integrations were found for FA26016

Summary of Hits

Job Number: FA26016
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26016-1	**TB-3 (071415)RW**					
No hits reported in this sample.						
FA26016-2	**MW-45A (071415)**					
No hits reported in this sample.						
FA26016-2F	**MW-45A (071415)**					
No hits reported in this sample.						
FA26016-3	**MW-45B (071415)**					
No hits reported in this sample.						
FA26016-3F	**MW-45B (071415)**					
No hits reported in this sample.						
FA26016-4	**MW-45C (071415)**					
Carbazole		0.0159	0.0056		mg/l	SW846 8270D
Dibenzofuran		0.0174	0.0056		mg/l	SW846 8270D
Acenaphthene		0.0326	0.0011		mg/l	SW846 8270D BY SIM
Fluorene		0.0161	0.0011		mg/l	SW846 8270D BY SIM
Naphthalene		0.0078	0.0011		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0068	0.0011		mg/l	SW846 8270D BY SIM
FA26016-4F	**MW-45C (071415)**					
No hits reported in this sample.						
FA26016-5	**MW-36C (071415)**					
Dibenzofuran		0.0062	0.0051		mg/l	SW846 8270D
Acenaphthene		0.0098	0.0010		mg/l	SW846 8270D BY SIM
Fluorene		0.0052	0.0010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0128	0.0010		mg/l	SW846 8270D BY SIM
FA26016-5F	**MW-36C (071415)**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA26016
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26016-6	**MW-51B (071415)**					
2,4-Dimethylphenol		0.0054	0.0052		mg/l	SW846 8270D
Acenaphthene		0.0033	0.0010		mg/l	SW846 8270D BY SIM
Fluorene		0.0031	0.0010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0043	0.0010		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0049	0.0010		mg/l	SW846 8270D BY SIM
FA26016-6F	**MW-51B (071415)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-3 (071415)RW		
Lab Sample ID:	FA26016-1	**Date Sampled:**	07/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35636.D	1	07/17/15	DP	n/a	n/a	VZ1348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (071415)		
Lab Sample ID:	FA26016-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35637.D	1	07/17/15	DP	n/a	n/a	VZ1348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (071415)		
Lab Sample ID:	FA26016-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683069.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (071415)		
Lab Sample ID:	FA26016-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087891.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	49% [a]		40-106%
1718-51-0	Terphenyl-d14	76% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (071415)		
Lab Sample ID:	FA26016-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A (071415)		
Lab Sample ID:	FA26016-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (071415)		
Lab Sample ID:	FA26016-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35638.D	1	07/17/15	DP	n/a	n/a	VZ1348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45B (071415)
Lab Sample ID: FA26016-3 **Date Sampled:** 07/14/15
Matrix: AQ - Ground Water **Date Received:** 07/15/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683070.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0054	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0054	mg/l	
95-48-7	2-Methylphenol	ND	0.0054	mg/l	
	3&4-Methylphenol	ND	0.0054	mg/l	
108-95-2	Phenol	ND	0.0054	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0054	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0054	mg/l	
86-74-8	Carbazole	ND	0.0054	mg/l	
132-64-9	Dibenzofuran	ND	0.0054	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0054	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (071415)		
Lab Sample ID:	FA26016-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087892.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	ND	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	mg/l	
218-01-9	Chrysene	ND	0.00022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	ND	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	ND	0.0011	mg/l	
85-01-8	Phenanthrene	ND	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (071415)		
Lab Sample ID:	FA26016-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (071415)		
Lab Sample ID:	FA26016-3F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (071415)		
Lab Sample ID:	FA26016-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34294.D	1	07/20/15	KM	n/a	n/a	VP1274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (071415)		
Lab Sample ID:	FA26016-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683071.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0056	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0056	mg/l	
95-48-7	2-Methylphenol	ND	0.0056	mg/l	
	3&4-Methylphenol	ND	0.0056	mg/l	
108-95-2	Phenol	ND	0.0056	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0056	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0056	mg/l	
86-74-8	Carbazole	0.0159	0.0056	mg/l	
132-64-9	Dibenzofuran	0.0174	0.0056	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0056	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (071415)
Lab Sample ID:	FA26016-4
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	07/14/15
Date Received:	07/15/15
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087893.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	0.0326	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	mg/l	
218-01-9	Chrysene	ND	0.00022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	0.0161	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	0.0078	0.0011	mg/l	
85-01-8	Phenanthrene	0.0068	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (071415)		
Lab Sample ID:	FA26016-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (071415)		
Lab Sample ID:	FA26016-4F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36C (071415)		
Lab Sample ID:	FA26016-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35640.D	1	07/17/15	DP	n/a	n/a	VZ1348
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (071415)		
Lab Sample ID:	FA26016-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683072.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0051	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	mg/l	
	3&4-Methylphenol	ND	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	mg/l	
86-74-8	Carbazole	ND	0.0051	mg/l	
132-64-9	Dibenzofuran	0.0062	0.0051	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (071415)		
Lab Sample ID:	FA26016-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087895.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0098	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	0.0052	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0128	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	78% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (071415)		
Lab Sample ID:	FA26016-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36C (071415)		
Lab Sample ID:	FA26016-5F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (071415)		
Lab Sample ID:	FA26016-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34295.D	1	07/20/15	KM	n/a	n/a	VP1274
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (071415)		
Lab Sample ID:	FA26016-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683073.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0052	mg/l	
105-67-9	2,4-Dimethylphenol	0.0054	0.0052	mg/l	
95-48-7	2-Methylphenol	ND	0.0052	mg/l	
	3&4-Methylphenol	ND	0.0052	mg/l	
108-95-2	Phenol	ND	0.0052	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0052	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0052	mg/l	
86-74-8	Carbazole	ND	0.0052	mg/l	
132-64-9	Dibenzofuran	ND	0.0052	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0052	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (071415)		
Lab Sample ID:	FA26016-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087896.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0033	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	mg/l	
218-01-9	Chrysene	ND	0.00021	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	0.0031	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0043	0.0010	mg/l	
85-01-8	Phenanthrene	0.0049	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	64% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (071415)		
Lab Sample ID:	FA26016-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (071415)		
Lab Sample ID:	FA26016-6F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26016
COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FAD-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST, #600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000572.0074
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6580 Fax: (317) 231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 0 2
Pres. Code

Matrix Codes: SO = Soil; SL = Sludge; GW = Groundwater; WW = Waste Water; OI = Oil; SW = Surface Water; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Site Objects)	Dissolved Metals: 6010 (Arsenic + Lead only (Filtered))	Total Metals: 6010 (Arsenic + Lead only)							COMMENTS	LAB USE
1	TB-3(071415)RW	3	7-14-15		RW	N	-	LQB	X											
2	MW-45A (071415)	7		1306			GRAB	GW	X	X	X	X								
3	MW-45B (071415)	7		1330					X	X	X	X								
4	MW-45C (071415)	7		1402					X	X	X	X								
5	MW-36C (071415)	7	7-14-15	1440	RW	N	GRAB	GW	X	X	X	X								
6	MW-51B (071415)	7	7-14-15	1516	RW	N	GRAB	GW	X	X	X	X								

Relinquished By:	Date Time: 7-14-15 / 1700	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - City of Bloomington Pharmacy - Provide Data in Separate Report - See Table 1 For Site Objs	
Relinquished By: FX	Date Time:	Received By: J. Conrad (ADX)	Date Time: 7-15-15 09:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3-2

FA26016: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26016 CLIENT: ARCADIS PROJECT: 94158 29

DATE/TIME RECEIVED: 7-15-15 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8079 4184 6851

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: _____

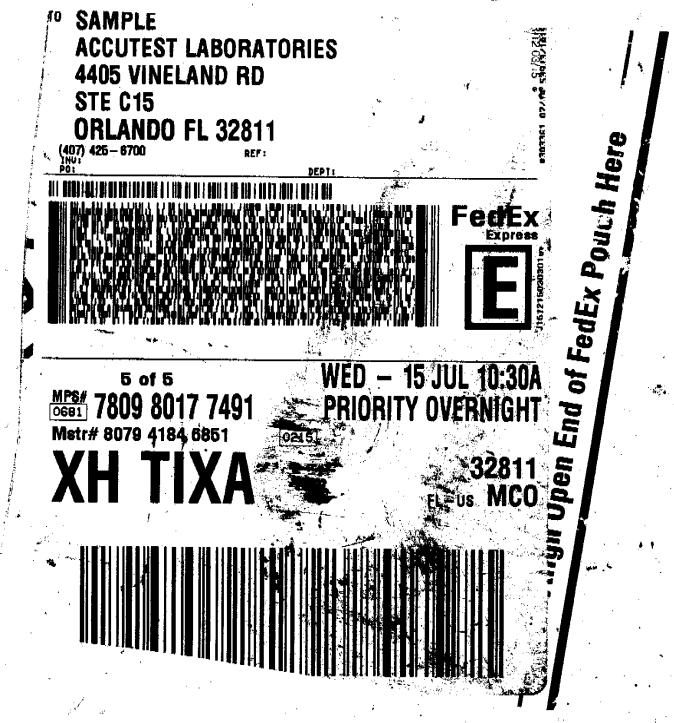
TECHNICIAN SIGNATURE/DATE 7-15-15 REVIEWER SIGNATURE/DATE 07-15-15

NF 10/14 receipt confirmation 102914.xls

5.1 5

FA26016: Chain of Custody

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FA26016: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26017

Sampling Date: 07/14/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **38**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26017

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26017-1	07/14/15	00:00	BC	07/15/15	AQ	Trip Blank Water	TB-1 (071415)BC
FA26017-2	07/14/15	10:50	BC	07/15/15	AQ	Ground Water	MW-17S (071415)
FA26017-2F	07/14/15	10:50	BC	07/15/15	AQ	Groundwater Filtered	MW-17S (071415)
FA26017-3	07/14/15	11:50	BC	07/15/15	AQ	Ground Water	MW-17D (071415)
FA26017-4	07/14/15	13:20	BC	07/15/15	AQ	Ground Water	MW-20S (071415)
FA26017-4F	07/14/15	13:20	BC	07/15/15	AQ	Groundwater Filtered	MW-20S (071415)
FA26017-5	07/14/15	14:20	BC	07/15/15	AQ	Ground Water	MW-21S (071415)
FA26017-5F	07/14/15	14:20	BC	07/15/15	AQ	Groundwater Filtered	MW-21S (071415)
FA26017-6	07/14/15	15:20	BC	07/15/15	AQ	Ground Water	MW-25A (071415)
FA26017-6F	07/14/15	15:20	BC	07/15/15	AQ	Groundwater Filtered	MW-25A (071415)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26017

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 10:02:53

5 Sample(s) and 1 Trip Blank(s) were collected on 07/14/2015 and were received at Accutest SE on 07/15/2015 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of FA26017. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ1349

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26026-2MS have surrogates outside control limits. Probable cause is due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56864

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56864-BS: Insufficient sample for MS/MSD.

Matrix: AQ **Batch ID:** OP56902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56902-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56861

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2MS, FA25986-2MSD were used as the QC samples indicated.
Blank Spike Recovery(s) for Naphthalene are outside control limits. Sporadic, marginal failure.

Matrix Spike Recovery(s) for Pentachlorophenol , Dibenzo(a,h)anthracene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for Pentachlorophenol , Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike /Matrix Spike Duplicate Recovery(s) for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Fluorene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP56861-MS, OP56861-MSD have surrogates outside control limits.

OP56861-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56861-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56861-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56861-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56861

OP56861-MS and MSD for Nitrobenzene-d5: Outside control limits due to dilution.
OP56861-MS and MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.
OP56861-MS and MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP56861-MS and MSD for Terphenyl-d14: Outside control limits due to dilution.
OP56861-MSD for 2,4,6-Tribromophenol: Outside control limits due to dilution.
OP56861-MSD for Terphenyl-d14: Outside control limits due to dilution.
OP56861-MSD for Nitrobenzene-d5: Outside control limits due to dilution.
OP56861-MSD for 2-Fluorobiphenyl: Outside control limits due to dilution.
FA26017-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-3 for Naphthalene: Associated BS recovery outside control limits. Insufficient sample for re-extraction.

Matrix: AQ **Batch ID:** OP56903

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) OP56861-MS, OP56861-MSD have surrogates outside control limits. Probable cause is due to matrix interference.
OP56903-BS: Insufficient sample for MS/MSD.
OP56903-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP56903-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP56903-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP56903-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
FA26017-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL, FA25986-2FDUP were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29176

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2FDUP, FA26026-2FMB, FA26026-2FMS, FA26026-2FMSD, FA26026-2FPS, FA26026-2FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 29, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26017-2	MSSEMI	L0683065.D	2-Fluorophenol
FA26017-2	MSSEMI	W087897.D	Benzo(k)fluoranthene
FA26017-4	MSSEMI	W087899.D	Benzo(k)fluoranthene
FA26017-5	MSSEMI	W087900.D	Benzo(a)anthracene, Benzo(k)fluoranthene
FA26017-6	MSSEMI	W087901.D	Benzo(k)fluoranthene
OP56864-BS	MSSEMI	X040967.D	Caprolactam
OP56902-BS	MSSEMI	X040993.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3688-CC3685	MSSEMI	L0683061.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam

26 Manual Integrations were found for FA26017

Summary of Hits

Job Number: FA26017
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26017-1	**TB-1 (071415)BC**					
No hits reported in this sample.						
FA26017-2	**MW-17S (071415)**					
Benzo(b)fluoranthene		0.00021	0.00019		mg/l	SW846 8270D BY SIM
Arsenic		0.0133	0.010		mg/l	SW846 6010C
Lead		0.0242	0.0050		mg/l	SW846 6010C
FA26017-2F	**MW-17S (071415)**					
No hits reported in this sample.						
FA26017-3	**MW-17D (071415)**					
Benzene		0.0072	0.0050		mg/l	SW846 8260B
Toluene		0.0056	0.0050		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0056	0.0048		mg/l	SW846 8270D
Carbazole		0.0176	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0154	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0225	0.00095		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0013	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0143	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0221	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene [a]		0.213	0.0095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0131	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0121	0.0050		mg/l	SW846 6010C
FA26017-4	**MW-20S (071415)**					
Carbazole		0.0067	0.0047		mg/l	SW846 8270D
Dibenzofuran		0.0112	0.0047		mg/l	SW846 8270D
Acenaphthene		0.0202	0.00094		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0154	0.00094		mg/l	SW846 8270D BY SIM
Anthracene		0.0109	0.00094		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0641	0.00094		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.0755	0.00094		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0807	0.00094		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0274	0.00094		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0580	0.00094		mg/l	SW846 8270D BY SIM
Chrysene		0.0704	0.00094		mg/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.0111	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0898	0.0047		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA26017
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluorene		0.0107	0.00094		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0432	0.00094		mg/l	SW846 8270D BY SIM
Naphthalene		0.0041	0.00094		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0104	0.00094		mg/l	SW846 8270D BY SIM
Pyrene		0.0547	0.0047		mg/l	SW846 8270D BY SIM
Arsenic		0.0110	0.010		mg/l	SW846 6010C
Lead		0.0633	0.0050		mg/l	SW846 6010C
FA26017-4F	**MW-20S (071415)**					
No hits reported in this sample.						
FA26017-5	**MW-21S (071415)**					
Lead		0.0097	0.0050		mg/l	SW846 6010C
FA26017-5F	**MW-21S (071415)**					
No hits reported in this sample.						
FA26017-6	**MW-25A (071415)**					
Benzene		0.0118	0.0050		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0107	0.0048		mg/l	SW846 8270D
Carbazole		0.0151	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0227	0.0048		mg/l	SW846 8270D
Acenaphthene		0.603	0.027		mg/l	SW846 8270D BY SIM
Anthracene		0.0014	0.00095		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0073	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.270	0.027		mg/l	SW846 8270D BY SIM
Naphthalene		0.436	0.027		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0033	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0036	0.00095		mg/l	SW846 8270D BY SIM
FA26017-6F	**MW-25A (071415)**					
No hits reported in this sample.						

(a) Associated BS recovery outside control limits. Insufficient sample for re-extraction.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071415)BC		
Lab Sample ID:	FA26017-1	**Date Sampled:**	07/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35664.D	1	07/17/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (071415)		
Lab Sample ID:	FA26017-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35665.D	1	07/17/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	121%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17S (071415)
Lab Sample ID: FA26017-2 **Date Sampled:** 07/14/15
Matrix: AQ - Ground Water **Date Received:** 07/15/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683065.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (071415)		
Lab Sample ID:	FA26017-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087897.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00021	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	76% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	78% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (071415)		
Lab Sample ID:	FA26017-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0133	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0242	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17S (071415)		
Lab Sample ID:	FA26017-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17D (071415)		
Lab Sample ID:	FA26017-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35666.D	1	07/17/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0072	0.0050	mg/l	
108-88-3	Toluene	0.0056	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17D (071415)
Lab Sample ID: FA26017-3 **Date Sampled:** 07/14/15
Matrix: AQ - Ground Water **Date Received:** 07/15/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040975.D	1	07/20/15	MV	07/16/15	OP56864	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0056	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0176	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0154	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17D (071415)		
Lab Sample ID:	FA26017-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051750.D	1	07/17/15	NJ	07/16/15	OP56861	SU2354
Run #2	U051784.D	10	07/20/15	MG	07/16/15	OP56861	SU2356

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0225	0.00095	mg/l	
208-96-8	Acenaphthylene	0.0017	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0013	0.00095	mg/l	
86-73-7	Fluorene	0.0143	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0221	0.00095	mg/l	
91-20-3	Naphthalene [a]	0.213 [b]	0.0095	mg/l	
85-01-8	Phenanthrene	0.0131	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	86% [c]	72% [c]	33-118%
4165-60-0	Nitrobenzene-d5	72% [c]	70% [c]	42-108%
321-60-8	2-Fluorobiphenyl	64% [c]	70% [c]	40-106%
1718-51-0	Terphenyl-d14	72% [c]	73% [c]	39-121%

(a) Associated BS recovery outside control limits. Insufficient sample for re-extraction.
(b) Result is from Run# 2
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17D (071415)		
Lab Sample ID:	FA26017-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0121	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20S (071415)		
Lab Sample ID:	FA26017-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35667.D	1	07/17/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S (071415)		
Lab Sample ID:	FA26017-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683066.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	0.0067	0.0047	mg/l	
132-64-9	Dibenzofuran	0.0112	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S (071415)		
Lab Sample ID:	FA26017-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087898.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2	W087899.D	5	07/22/15	MG	07/20/15	OP56903	SW4034

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	0.0202	0.00094	mg/l	
208-96-8	Acenaphthylene	0.0154	0.00094	mg/l	
120-12-7	Anthracene	0.0109	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	0.0641 [a]	0.00094	mg/l	
50-32-8	Benzo(a)pyrene	0.0755 [a]	0.00094	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0807 [a]	0.00094	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0274 [a]	0.00094	mg/l	
207-08-9	Benzo(k)fluoranthene	0.0580 [a]	0.00094	mg/l	
218-01-9	Chrysene	0.0704 [a]	0.00094	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.0111	0.00019	mg/l	
206-44-0	Fluoranthene	0.0898 [a]	0.0047	mg/l	
86-73-7	Fluorene	0.0107	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0432 [a]	0.00094	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	0.0041	0.00094	mg/l	
85-01-8	Phenanthrene	0.0104	0.00094	mg/l	
129-00-0	Pyrene	0.0547 [a]	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [b]	77% [b]	33-118%
4165-60-0	Nitrobenzene-d5	85% [b]	72% [b]	42-108%
321-60-8	2-Fluorobiphenyl	64% [b]	75% [b]	40-106%
1718-51-0	Terphenyl-d14	47% [b]	56% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S (071415)		
Lab Sample ID:	FA26017-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0110	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0633	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20S (071415)		
Lab Sample ID:	FA26017-4F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-21S (071415)		
Lab Sample ID:	FA26017-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35668.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21S (071415)		
Lab Sample ID:	FA26017-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683067.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21S (071415)		
Lab Sample ID:	FA26017-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087900.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21S (071415)		
Lab Sample ID:	FA26017-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0097	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-21S (071415)		
Lab Sample ID:	FA26017-5F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (071415)		
Lab Sample ID:	FA26017-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35669.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0118	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	120%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (071415)		
Lab Sample ID:	FA26017-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683068.D	1	07/21/15	MV	07/20/15	OP56902	SL3688
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0107	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0151	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0227	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (071415)		
Lab Sample ID:	FA26017-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087901.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2	W087902.D	4	07/22/15	MG	07/20/15	OP56903	SW4034

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	150 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.603 [a]	0.027	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	0.0014	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.00019	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0073	0.00095	mg/l	
86-73-7	Fluorene	0.270 [a]	0.027	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.436 [a]	0.027	mg/l	
85-01-8	Phenanthrene	0.0033	0.00095	mg/l	
129-00-0	Pyrene	0.0036	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [b]	89% [b]	33-118%
4165-60-0	Nitrobenzene-d5	71% [b]	65% [b]	42-108%
321-60-8	2-Fluorobiphenyl	64% [b]	64% [b]	40-106%
1718-51-0	Terphenyl-d14	71% [b]	77% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (071415)		
Lab Sample ID:	FA26017-6	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (071415)		
Lab Sample ID:	FA26017-6F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # FA26017

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St #600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: (317) 231-6580 Fax: (317) 231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: Data CD only, No Hard Copy
- ☒ EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

METHODS FOR ANALYSIS

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs, 8270 (site COCs only)	Total Metals 6010 Arsenic & Lead only	Dissolved Metals 6010 Arsenic & Lead only, 0.45 filtered in field	COMMENTS	LAB USE
TB-1(071415)BC	2	—	—	BC	N	Grab	Liq	X					
MW-17S(071415)	7	7/14/15	1050	BC	N	Grab	GW	X	X	X	X		
MW-17D(071415)	6	7/14/15	1150	BC	N	Grab	GW	X	X	X			
MW-20S(071415)	7	7/14/15	1320	BC	N	Grab	GW	X	X	X	X		
MW-21S(071415)	7	7/14/15	1420	BC	N	Grab	GW	X	X	X	X		
MW-23A(071415)	7	7/14/15	1520	BC	N	Grab	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7/14/15 1700	FX		See Table 1 for site COCs.
Relinquished By: FX	Date Time:	Received By: J. Cooper (ARM)	Date Time: 7-15-15 09:00	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: ☐ Yes Custody Intact ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26017: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26017 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 7-15-15 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8079 4184 6851

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

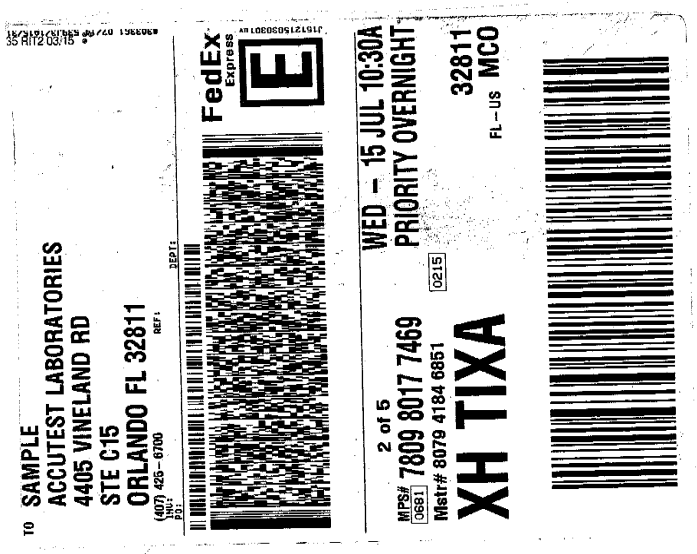
SUMMARY OF COMMENTS: 1AmBER FOR SAMPLE #3 is 1/10 FULL

TECHNICIAN SIGNATURE/DATE [signature] 7-15-15 REVIEWER SIGNATURE/DATE [signature] 07-15-15

NF 10/14 receipt confirmation 102914.xls

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FA26017: Chain of Custody
Page 2 of 3



FA26017: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/28/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26018

Sampling Date: 07/14/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **32**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26018

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26018-1	07/14/15	00:00	RW	07/15/15	AQ	Trip Blank Water	TB-1 (071415)RW
FA26018-2	07/14/15	08:35	RW	07/15/15	AQ	Ground Water	MW-49A (071415)
FA26018-2F	07/14/15	08:35	RW	07/15/15	AQ	Groundwater Filtered	MW-49A (071415)
FA26018-3	07/14/15	09:00	RW	07/15/15	AQ	Ground Water	MW-49B (071415)
FA26018-3F	07/14/15	09:00	RW	07/15/15	AQ	Groundwater Filtered	MW-49B (071415)
FA26018-4	07/14/15	09:46	RW	07/15/15	AQ	Ground Water	MW-44A (071415)
FA26018-4F	07/14/15	09:46	RW	07/15/15	AQ	Groundwater Filtered	MW-44A (071415)
FA26018-5	07/14/15	10:17	RW	07/15/15	AQ	Ground Water	MW-35C (071415)
FA26018-5F	07/14/15	10:17	RW	07/15/15	AQ	Groundwater Filtered	MW-35C (071415)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26018

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/23/2015 10:15:55

4 Sample(s), 1 Trip Blank(s) were collected on 07/14/2015 and were received at Accutest SE on 07/15/2015 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA26018. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ1349

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26026-2MS, FA26018-5 have surrogates outside control limits. Probable cause is due to matrix interference.

FA26018-5: Sample was not preserved to a pH < 2.

FA26018-5 for 1,2-Dichloroethane-D4: Outside control limits; however, sample is ND.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56902

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56902-BS: Insufficient sample for MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56903

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP56903-BS: Insufficient sample for MS/MSD.

OP56903-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56903-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26018-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26018-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26018-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26018-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26018-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26018-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26018-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26018-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26018-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26018-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26018-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26018-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56903

FA26018-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26018-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26018-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26018-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA26018-3 for Lead: Elevated reporting limit(s) due to matrix interference.

Matrix: AQ **Batch ID:** MP29176

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2FDUP, FA26026-2FMB, FA26026-2FMS, FA26026-2FMSD, FA26026-2FPS, FA26026-2FSDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 23, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
OP56902-BS	MSSEMI	X040993.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3688-CC3685	MSSEMI	L0683061.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam

19 Manual Integrations were found for FA26018

Summary of Hits

Job Number: FA26018
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26018-1	**TB-1 (071415)RW**					
No hits reported in this sample.						
FA26018-2	**MW-49A (071415)**					
No hits reported in this sample.						
FA26018-2F	**MW-49A (071415)**					
No hits reported in this sample.						
FA26018-3	**MW-49B (071415)**					
Arsenic		0.0273	0.010		mg/l	SW846 6010C
Lead [a]		0.0541	0.020		mg/l	SW846 6010C
FA26018-3F	**MW-49B (071415)**					
No hits reported in this sample.						
FA26018-4	**MW-44A (071415)**					
No hits reported in this sample.						
FA26018-4F	**MW-44A (071415)**					
No hits reported in this sample.						
FA26018-5	**MW-35C (071415)**					
Arsenic		0.0103	0.010		mg/l	SW846 6010C
Lead		0.0063	0.0050		mg/l	SW846 6010C
FA26018-5F	**MW-35C (071415)**					
No hits reported in this sample.						

(a) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071415)RW		
Lab Sample ID:	FA26018-1	**Date Sampled:**	07/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35670.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071415)		
Lab Sample ID:	FA26018-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35671.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-49A (071415)
Lab Sample ID: FA26018-2 **Date Sampled:** 07/14/15
Matrix: AQ - Ground Water **Date Received:** 07/15/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041040.D	1	07/22/15	MV	07/20/15	OP56902	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071415)		
Lab Sample ID:	FA26018-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087903.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	ND	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	mg/l	
218-01-9	Chrysene	ND	0.00022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	ND	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	ND	0.0011	mg/l	
85-01-8	Phenanthrene	ND	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49A (071415)		
Lab Sample ID:	FA26018-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49A (071415)		
Lab Sample ID:	FA26018-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (071415)		
Lab Sample ID:	FA26018-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35672.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	123%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071415)		
Lab Sample ID:	FA26018-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041041.D	1	07/22/15	MV	07/20/15	OP56902	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	50%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071415)		
Lab Sample ID:	FA26018-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087904.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	ND	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00021	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00021	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00021	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00021	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00021	mg/l	
218-01-9	Chrysene	ND	0.00021	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00021	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	ND	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00021	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	ND	0.0011	mg/l	
85-01-8	Phenanthrene	ND	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	65% [a]		33-118%
4165-60-0	Nitrobenzene-d5	70% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	53% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-49B (071415)		
Lab Sample ID:	FA26018-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0273	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	0.0541	0.020	mg/l	4	07/16/15	07/20/15	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA12530
(2) Instrument QC Batch: MA12535
(3) Prep QC Batch: MP29169

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-49B (071415)		
Lab Sample ID:	FA26018-3F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (071415)		
Lab Sample ID:	FA26018-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35673.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	124%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (071415)		
Lab Sample ID:	FA26018-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041042.D	1	07/22/15	MV	07/20/15	OP56902	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	72%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (071415)		
Lab Sample ID:	FA26018-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087905.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	ND	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00099	mg/l	
91-20-3	Naphthalene	ND	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	73% [a]		42-108%
321-60-8	2-Fluorobiphenyl	68% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (071415)		
Lab Sample ID:	FA26018-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-44A (071415)		
Lab Sample ID:	FA26018-4F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (071415)		
Lab Sample ID:	FA26018-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z35674.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127% [b]		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Sample was not preserved to a pH < 2.
(b) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071415)		
Lab Sample ID:	FA26018-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041043.D	1	07/22/15	MV	07/20/15	OP56902	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071415)		
Lab Sample ID:	FA26018-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W087906.D	1	07/22/15	MG	07/20/15	OP56903	SW4034
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	78% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (071415)		
Lab Sample ID:	FA26018-5	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0103	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0063	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (071415)		
Lab Sample ID:	FA26018-5F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 26018

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST. STE 610
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0034.00002
PM: BRYANT GRIGGS
Email: BRYANT.GRIGGS@ARCADIS-US.COM
Phone: 317-231-6508 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days (Specify # Days ____)
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD only + ARCADIS Copy
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ 1 | 0 | 2 | 2
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX + MTBE + Naphthalene (SW846 8260)	SVOC (SW846 8270 SCAN)	TOTAL METALS AS+Pb (SW846 6010)	DISSOLVED METALS AS+Pb (SW846 6010) (Lab Filtered)	COMMENTS	LAB USE
1	TB-1 (071415) RW	3	7-14-15	—	—	—	—	LIQ	X					
2	MW-49A (071415)	7		0835	RW	N	GRAB	GW	X	X	X	X		
3	MW-49B (071415)	7		0900					X	X	X	X		
4	MW-44A (071415)	7		0946					X	X	X	X		
5	MW-35C (071415)	7	↓	1017	↓	↓	↓	↓	X	X	X	X		

	Relinquished By:	Date Time:	Received By:	Date Time:
1	[signature]	7-14-15 / 1700	FX	
2	FX	Date Time:	[signature] (ARCADIS)	7-15-15 09:00
3	Relinquished By:	Date Time:	Received By:	Date Time:
	Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal # #; LAB Log Number #

Comments & Special Analytical Requirements:
- CITY OF BLOOMINGTON PROPERTY
- PHOTOS IN SEPARATE REPORT
- SEE TABLE 1 FOR SITE LOG

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.0

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FA26018: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26018 CLIENT: A2C4015 PROJECT: 941S829

DATE/TIME RECEIVED: _____ {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: _____

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER: _____

AIRBILL NUMBERS: 8079 4184 6851

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID _____ CORR. FACTOR _____
- [ ] OBSERVED TEMPS: _____
- [ ] CORRECTED TEMPS: _____

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE 7-15-15 REVIEWER SIGNATURE/DATE 07-15-15

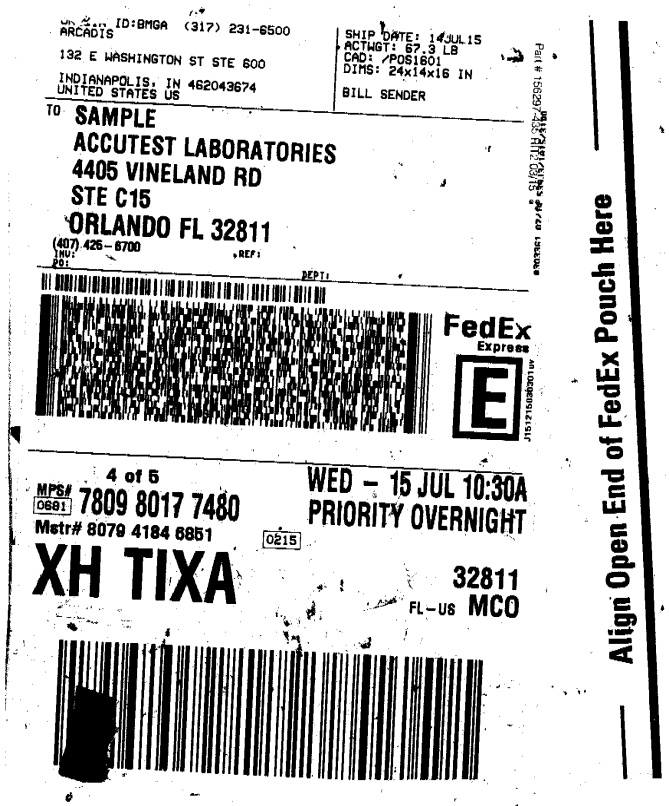
NF 10/14

receipt confirmation 102914.xls

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FA26018: Chain of Custody

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FA26018: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26026

Sampling Date: 07/14/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26026

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26026-1	07/14/15	00:00	RW	07/15/15	AQ	Trip Blank Water	TB-2 (071415)RW
FA26026-2	07/14/15	10:58	RW	07/15/15	AQ	Ground Water	MW-35A (071415)
FA26026-2D	07/14/15	10:58	RW	07/15/15	AQ	Water Dup/MSD	MW-35A (071415)
FA26026-2F	07/14/15	10:58	RW	07/15/15	AQ	Groundwater Filtered	MW-35A (071415)
FA26026-2FD	07/14/15	10:58	RW	07/15/15	AQ	Water Dup/MSD	MW-35A (071415)
FA26026-2FS	07/14/15	10:58	RW	07/15/15	AQ	Water Matrix Spike	MW-35A (071415)
FA26026-2S	07/14/15	10:58	RW	07/15/15	AQ	Water Matrix Spike	MW-35A (071415)
FA26026-3	07/14/15	11:36	RW	07/15/15	AQ	Ground Water	MW-35B (071415)
FA26026-3F	07/14/15	11:36	RW	07/15/15	AQ	Groundwater Filtered	MW-35B (071415)
FA26026-4	07/14/15	00:00	RW	07/15/15	AQ	Ground Water	DUP-1 (071415)
FA26026-4F	07/14/15	00:00	RW	07/15/15	AQ	Groundwater Filtered	DUP-1 (071415)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26026

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 3:50:45 PM

3 Sample(s), 1 Trip Blank(s) were collected on 07/14/2015 and were received at Accutest SE on 07/15/2015 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA26026. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VZ1349

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26026-2MS, FA26026-2, FA26026-3, FA26026-4 have surrogates outside control limits. Probable cause is due to matrix interference.

FA26026-2 for 1,2-Dichloroethane-D4: Outside control limits; however, sample is ND.

FA26026-3: Sample was treated with an anti-foaming agent.

FA26026-3 for 1,2-Dichloroethane-D4: Outside control limits; however, sample is ND.

FA26026-4: Sample was treated with an anti-foaming agent.

FA26026-4 for 1,2-Dichloroethane-D4: Outside control limits; however, sample is ND.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56920

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26026-3: Dilution required due to matrix interference; extract would not concentrate.

FA26026-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26026-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26026-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26026-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

FA26026-4: Dilution required due to matrix interference; extract would not concentrate.

FA26026-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26026-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26026-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26026-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP56921

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26026-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26026-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26026-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26026-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29176

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2FDUP, FA26026-2FMB, FA26026-2FMS, FA26026-2FMSD, FA26026-2FPS, FA26026-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 29, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
OP56888-BS	MSSEMI	X040960.D	Caprolactam
OP56920-MS1	MSSEMI	X041075.D	Caprolactam
OP56920-MSD1	MSSEMI	X041076.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid

12 Manual Integrations were found for FA26026

Summary of Hits

Job Number: FA26026
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA26026-1 TB-2 (071415)RW

No hits reported in this sample.

FA26026-2 MW-35A (071415)

No hits reported in this sample.

FA26026-2F MW-35A (071415)

No hits reported in this sample.

FA26026-3 MW-35B (071415)

No hits reported in this sample.

FA26026-3F MW-35B (071415)

No hits reported in this sample.

FA26026-4 DUP-1 (071415)

No hits reported in this sample.

FA26026-4F DUP-1 (071415)

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071415)RW		
Lab Sample ID:	FA26026-1	**Date Sampled:**	07/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35675.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	124%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071415)		
Lab Sample ID:	FA26026-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z35676.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		83-118%
17060-07-0	1,2-Dichloroethane-D4	129% [a]		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071415)		
Lab Sample ID:	FA26026-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041074.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	58%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071415)		
Lab Sample ID:	FA26026-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051895.D	1	07/23/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (071415)		
Lab Sample ID:	FA26026-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (071415)		
Lab Sample ID:	FA26026-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/17/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12533
(2) Prep QC Batch: MP29176

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (071415)		
Lab Sample ID:	FA26026-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z35677.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127% [b]		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	113%		83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071415)		
Lab Sample ID:	FA26026-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040976.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	25.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.13	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.13	mg/l	
95-48-7	2-Methylphenol	ND	0.13	mg/l	
	3&4-Methylphenol	ND	0.13	mg/l	
108-95-2	Phenol	ND	0.13	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.13	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.13	mg/l	
86-74-8	Carbazole	ND	0.13	mg/l	
132-64-9	Dibenzofuran	ND	0.13	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	55%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	51%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071415)		
Lab Sample ID:	FA26026-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U051802.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	25.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.025	mg/l	
83-32-9	Acenaphthene	ND	0.025	mg/l	
208-96-8	Acenaphthylene	ND	0.025	mg/l	
120-12-7	Anthracene	ND	0.025	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0050	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0050	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0050	mg/l	
218-01-9	Chrysene	ND	0.0050	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0050	mg/l	
206-44-0	Fluoranthene	ND	0.025	mg/l	
86-73-7	Fluorene	ND	0.025	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0050	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.025	mg/l	
91-20-3	Naphthalene	ND	0.025	mg/l	
85-01-8	Phenanthrene	ND	0.025	mg/l	
129-00-0	Pyrene	ND	0.025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61% [b]		33-118%
4165-60-0	Nitrobenzene-d5	75% [b]		42-108%
321-60-8	2-Fluorobiphenyl	75% [b]		40-106%
1718-51-0	Terphenyl-d14	46% [b]		39-121%

(a) Dilution required due to matrix interference; extract would not concentrate.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (071415)		
Lab Sample ID:	FA26026-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (071415)		
Lab Sample ID:	FA26026-3F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071415)		
Lab Sample ID:	FA26026-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z35678.D	1	07/18/15	DP	n/a	n/a	VZ1349
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	127% [b]		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	114%		83-118%

(a) Sample was treated with an anti-foaming agent.
(b) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)		
Lab Sample ID:	FA26026-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040977.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	25.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.14	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.14	mg/l	
95-48-7	2-Methylphenol	ND	0.14	mg/l	
	3&4-Methylphenol	ND	0.14	mg/l	
108-95-2	Phenol	ND	0.14	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.14	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.14	mg/l	
86-74-8	Carbazole	ND	0.14	mg/l	
132-64-9	Dibenzofuran	ND	0.14	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.14	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	35%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	59%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)		
Lab Sample ID:	FA26026-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U051803.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	25.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.028	mg/l	
83-32-9	Acenaphthene	ND	0.028	mg/l	
208-96-8	Acenaphthylene	ND	0.028	mg/l	
120-12-7	Anthracene	ND	0.028	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0056	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0056	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0056	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0056	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0056	mg/l	
218-01-9	Chrysene	ND	0.0056	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0056	mg/l	
206-44-0	Fluoranthene	ND	0.028	mg/l	
86-73-7	Fluorene	ND	0.028	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0056	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.028	mg/l	
91-20-3	Naphthalene	ND	0.028	mg/l	
85-01-8	Phenanthrene	ND	0.028	mg/l	
129-00-0	Pyrene	ND	0.028	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	47% [b]		33-118%
4165-60-0	Nitrobenzene-d5	73% [b]		42-108%
321-60-8	2-Fluorobiphenyl	74% [b]		40-106%
1718-51-0	Terphenyl-d14	53% [b]		39-121%

(a) Dilution required due to matrix interference; extract would not concentrate.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)		
Lab Sample ID:	FA26026-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071415)		
Lab Sample ID:	FA26026-4F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 26026

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION

Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION

Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 941582S
CSXT Project Name: IN CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 33216

CONSULTANT INFORMATION

Company: ARCADIS
Address: 132 E. WASHINGTON ST., STE 600
City, State, Zip: INDIANAPOLIS, IN
Project #: IN000072.0074.02902
PM: BRYANT GRIBBLES
Email: BRYANT.GRIBBLES@ARCADIS-US.COM
Phone: Fax:

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD ONLY, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 0 0

METHODS FOR ANALYSIS

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	8260B 8260 SVOCs 8270 Scan (List Cpds Only)	Total Metals As+Pb	Dissolved Metals: As+Pb (Lab Filter, + Field)	COMMENTS	LAB USE
1 TB-2 (071415) RW	3	7-14-15	—	—	—	—	LIQ	X				
2 MW-35A (071415)	21		1058	RW	N	GRAB	GW	X	X	X	X	MS/MSD
3 MW-35B (071415)	7		1136					X	X	X	X	
4 Dup-1 (071415)	7		—					X	X	X	X	FIELD DUP

Relinquished By:	Date Time: 7-14-15/1700	Received By: FX	Date Time:	Comments & Special Analytical Requirements: -CITY OF BLOOMINGTON PROPERTY -PROVIDE IN SEPARATE REPORT -SEE TABLE 1 FOR SITE COCs	
Relinquished By: FX	Date Time:	Received By: J. Coyne (ALPHA)	Date Time: 7-15-15 09:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES

Rev. 5/21/02

INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26026: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26026 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 7-15-15 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8079 4184 6851

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [X] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: ALL 3 VIALS HAVE MACRO BUBBLES FOR SAMPLE #3

" " " " " " " #4

TECHNICIAN SIGNATURE/DATE 7-15-15 REVIEWER SIGNATURE/DATE 07/15/15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26026: Chain of Custody

Page 2 of 3


SAMPLE
ACCUTEST LABORATORIES
4405 VINELAND RD
STE C15
ORLANDO FL 32811
) 425-6700
REF:
DEPT:
FedEx
Express
1 of 5
WED - 15 JUL 10:30A
8079 4184 6851
PRIORITY OVERNIGHT
MASTER ##
XH TIXA
32811
FL-US MCO

FA26026: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074

Accutest Job Number: FA26027

Sampling Date: 07/14/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **30**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26027

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA26027-1	07/14/15	00:00		07/15/15	AQ	Trip Blank Water	TB-1 (071415)RC
FA26027-2	07/14/15	14:15		07/15/15	AQ	Ground Water	MW-38A (071415)
FA26027-2D	07/14/15	14:15		07/15/15	AQ	Water Matrix Spike	MW-38A (071415)
FA26027-2F	07/14/15	14:15		07/15/15	AQ	Groundwater Filtered	MW-38A (071415)
FA26027-2FD	07/14/15	14:15		07/15/15	AQ	Water Dup/MSD	MW-38A (071415)
FA26027-2FS	07/14/15	14:15		07/15/15	AQ	Water Matrix Spike	MW-38A (071415)
FA26027-2S	07/14/15	14:15		07/15/15	AQ	Water Matrix Spike	MW-38A (071415)
FA26027-3	07/14/15	12:30		07/15/15	AQ	Ground Water	MW-38B (071415)
FA26027-3F	07/14/15	12:30		07/15/15	AQ	Groundwater Filtered	MW-38B (071415)
FA26027-4	07/14/15	00:00		07/15/15	AQ	Ground Water	DUP-1 (071415)RC
FA26027-4F	07/14/15	00:00		07/15/15	AQ	Groundwater Filtered	DUP-1 (071415)RC

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26027

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 5:21:10 PM

3 Sample(s), 1 Trip Blank(s) were collected on 07/14/2015 and were received at Accutest SE on 07/15/2015 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA26027. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VP1273

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2MS, FA26027-2MSD were used as the QC samples indicated.

Matrix Spike /Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Matrix Spike /Matrix Spike Duplicate Recovery(s) for Xylene (total) are outside control limits Probable cause is due to matrix interference. % RPD was within control limit in MS/MSD.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

FA26027-4: Dilution required due to matrix interference.

Matrix: AQ **Batch ID:** OP56920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2MS, FA26027-2MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Carbazole, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. % RPD was within control limit in MS/MSD.

RPD(s) for MSD for Phenol are outside control limits for sample OP56920-MSD2. Probable cause is due to sample non-homogeneity.

FA26027-2: Dilution required due to high PAH levels.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Sample(s) FA26027-2, FA26027-3, FA26027-4 have surrogates outside control limits.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

FA26027-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26027-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26027-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26027-3 for Terphenyl-d14: Outside control limits due to dilution.

FA26027-4 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26027-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26027-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26027-4 for Terphenyl-d14: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP56921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2MS2, FA26027-2MSD2 were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limit in MS/MSD.

Matrix Spike Recovery(s) for Acenaphthene, Fluorene, 2-Methylnaphthalene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limit in MS/MSD.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limit in MS/MSD.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limit in MS/MSD. Sample(s) FA26027-2, FA26027-3, FA26027-4, OP56921-MS2, OP56921-MSD2 have surrogates outside control limits.

OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56921-MS2 for Terphenyl-d14: Outside control limits due to dilution.

OP56921-MS2 for Nitrobenzene-d5: Outside control limits due to dilution.

OP56921-MS2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP56921-MS2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP56921-MSD2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

OP56921-MSD2 for Terphenyl-d14: Outside control limits due to dilution.

OP56921-MSD2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

OP56921-MSD2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26027-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26027-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26027-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26027-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26027-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26027-2 for Terphenyl-d14: Outside control limits due to dilution.

FA26027-2 for Terphenyl-d14: Outside control limits due to dilution.

FA26027-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29169

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA25986-2FDUP, FA25986-2FMS, FA25986-2FMSD, FA25986-2FPS, FA25986-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29169-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29169-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29186

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2DUP, FA26027-2MS, FA26027-2MSD, FA26027-2PS, FA26027-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29186-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29186-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 29, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26027-2MS	MSVOA	P34275.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
FA26027-2MSD	MSVOA	P34276.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Methyl Chloride, Tetrahydrofuran
OP56888-BS	MSSEMI	X040960.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VP1270-IC1270	MSVOA	P34163.D	2-Butanone (MEK), Acrolein, Carbon Tetrachloride, Freon 113, Tert-Butyl Alcohol, Tetrahydrofuran,
VP1270-IC1270	MSVOA	P34164.D	Carbon Tetrachloride, Methyl Chloride, Tetrahydrofuran

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
VP1270-IC1270	MSVOA	P34165.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
VP1270-IC1270	MSVOA	P34167.D	Carbon Tetrachloride, Tetrahydrofuran
VP1270-IC1270	MSVOA	P34168.D	1,4-Dioxane, Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICC1270	MSVOA	P34166.D	Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICV1270	MSVOA	P34170.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Tetrahydrofuran
VP1270-ICV1270	MSVOA	P34171.D	1,2-Dichloroethane-D4, Hexane
VP1273-BS	MSVOA	P34252.D	1,2-Dichloroethane-D4, Carbon Tetrachloride, Dichlorodifluoromethane, Tetrahydrofuran
VP1273-CC1270	MSVOA	P34251.D	Carbon Tetrachloride, Tetrahydrofuran

33 Manual Integrations were found for FA26027

Summary of Hits

Job Number: FA26027
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26027-1	**TB-1 (071415)RC**					
No hits reported in this sample.						
FA26027-2	**MW-38A (071415)**					
Benzene		0.0699	0.010		mg/l	SW846 8260B
Ethylbenzene		0.0755	0.010		mg/l	SW846 8260B
Xylene (total)		0.0941	0.030		mg/l	SW846 8260B
Carbazole [a]		0.0177	0.0020		mg/l	SW846 8270D
Dibenzofuran [a]		0.0115	0.0020		mg/l	SW846 8270D
Acenaphthene		0.216	0.039		mg/l	SW846 8270D BY SIM
Fluorene		0.0978	0.039		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0413	0.039		mg/l	SW846 8270D BY SIM
Naphthalene		4.25	0.39		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0563	0.039		mg/l	SW846 8270D BY SIM
FA26027-2F	**MW-38A (071415)**					
No hits reported in this sample.						
FA26027-3	**MW-38B (071415)**					
Benzene		0.0771	0.0050		mg/l	SW846 8260B
Toluene		0.0099	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0823	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0948	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0161	0.0048		mg/l	SW846 8270D
Carbazole		0.153	0.019		mg/l	SW846 8270D
Dibenzofuran		0.107	0.019		mg/l	SW846 8270D
Acenaphthene		0.198	0.095		mg/l	SW846 8270D BY SIM
Naphthalene		3.33	0.095		mg/l	SW846 8270D BY SIM
FA26027-3F	**MW-38B (071415)**					
No hits reported in this sample.						
FA26027-4	**DUP-1 (071415)RC**					
Benzene		0.0666	0.010		mg/l	SW846 8260B
Ethylbenzene		0.0704	0.010		mg/l	SW846 8260B
Xylene (total)		0.0816	0.030		mg/l	SW846 8260B
Carbazole [b]		0.149	0.019		mg/l	SW846 8270D
Dibenzofuran [b]		0.111	0.019		mg/l	SW846 8270D
Acenaphthene		0.202	0.095		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA26027
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		3.06	0.095		mg/l	SW846 8270D BY SIM

FA26027-4F **DUP-1 (071415)RC**

No hits reported in this sample.

(a) Dilution required due to high PAH levels.
(b) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: TB-1 (071415)RC
Lab Sample ID: FA26027-1 **Date Sampled:** 07/14/15
Matrix: AQ - Trip Blank Water **Date Received:** 07/15/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34262.D	1	07/18/15	KM	n/a	n/a	VP1273
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071415)		
Lab Sample ID:	FA26027-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34263.D	2	07/18/15	KM	n/a	n/a	VP1273
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0699	0.010	mg/l	
108-88-3	Toluene	ND	0.010	mg/l	
100-41-4	Ethylbenzene	0.0755	0.010	mg/l	
1330-20-7	Xylene (total)	0.0941	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071415)		
Lab Sample ID:	FA26027-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X041101.D	4	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	10200 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0020	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0020	mg/l	
95-48-7	2-Methylphenol	ND	0.0020	mg/l	
	3&4-Methylphenol	ND	0.0020	mg/l	
108-95-2	Phenol	ND	0.0020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0020	mg/l	
86-74-8	Carbazole	0.0177	0.0020	mg/l	
132-64-9	Dibenzofuran	0.0115	0.0020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

(a) Dilution required due to high PAH levels.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38A (071415)
Lab Sample ID: FA26027-2 **Date Sampled:** 07/14/15
Matrix: AQ - Ground Water **Date Received:** 07/15/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051898.D	40	07/23/15	ME	07/21/15	OP56921	SU2359
Run #2	U051917.D	400	07/24/15	ME	07/21/15	OP56921	SU2360

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.039	mg/l	
83-32-9	Acenaphthene	0.216	0.039	mg/l	
208-96-8	Acenaphthylene	ND	0.039	mg/l	
120-12-7	Anthracene	ND	0.039	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0078	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0078	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0078	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0078	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0078	mg/l	
218-01-9	Chrysene	ND	0.0078	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0078	mg/l	
206-44-0	Fluoranthene	ND	0.039	mg/l	
86-73-7	Fluorene	0.0978	0.039	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0078	mg/l	
91-57-6	2-Methylnaphthalene	0.0413	0.039	mg/l	
91-20-3	Naphthalene	4.25 [a]	0.39	mg/l	
85-01-8	Phenanthrene	0.0563	0.039	mg/l	
129-00-0	Pyrene	ND	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (071415)		
Lab Sample ID:	FA26027-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38A (071415)		
Lab Sample ID:	FA26027-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (071415)		
Lab Sample ID:	FA26027-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34264.D	1	07/18/15	KM	n/a	n/a	VP1273
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0771	0.0050	mg/l	
108-88-3	Toluene	0.0099	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0823	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0948	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (071415)		
Lab Sample ID:	FA26027-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040978.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2	X041018.D	4	07/21/15	MV	07/18/15	OP56888	SX1891

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0161	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.153 [a]	0.019	mg/l	
132-64-9	Dibenzofuran	0.107 [a]	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%	31%	14-67%
4165-62-2	Phenol-d5	22%	19%	10-50%
118-79-6	2,4,6-Tribromophenol	73%	65%	33-118%
4165-60-0	Nitrobenzene-d5	94%	63%	42-108%
321-60-8	2-Fluorobiphenyl	62%	62%	40-106%
1718-51-0	Terphenyl-d14	77%	76%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (071415)		
Lab Sample ID:	FA26027-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051845.D	100	07/22/15	MG	07/18/15	OP56889	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.198	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.095	mg/l	
91-20-3	Naphthalene	3.33	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (071415)		
Lab Sample ID:	FA26027-3	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38B (071415)		
Lab Sample ID:	FA26027-3F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071415)RC		
Lab Sample ID:	FA26027-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P34265.D	2	07/18/15	KM	n/a	n/a	VP1273
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0666	0.010	mg/l	
108-88-3	Toluene	ND	0.010	mg/l	
100-41-4	Ethylbenzene	0.0704	0.010	mg/l	
1330-20-7	Xylene (total)	0.0816	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)RC		
Lab Sample ID:	FA26027-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X041019.D	4	07/21/15	MV	07/18/15	OP56888	SX1891
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.149	0.019	mg/l	
132-64-9	Dibenzofuran	0.111	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)RC		
Lab Sample ID:	FA26027-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051846.D	100	07/22/15	MG	07/18/15	OP56889	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.095	mg/l	
83-32-9	Acenaphthene	0.202	0.095	mg/l	
208-96-8	Acenaphthylene	ND	0.095	mg/l	
120-12-7	Anthracene	ND	0.095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.095	mg/l	
86-73-7	Fluorene	ND	0.095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.095	mg/l	
91-20-3	Naphthalene	3.06	0.095	mg/l	
85-01-8	Phenanthrene	ND	0.095	mg/l	
129-00-0	Pyrene	ND	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071415)RC		
Lab Sample ID:	FA26027-4	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/16/15	07/16/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12530
(2) Prep QC Batch: MP29169

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071415)RC		
Lab Sample ID:	FA26027-4F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/15/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 86027

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 OF 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
CSXT Project Name: IN CREOSOTE
CSXT Contact: ~~PAUL J.~~ DAN DYER
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST., #600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0074
PM: BRYANT GRIGGS
Email: bryant.griggs@arcadis-us.com
Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY, NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (site COCs only)	Total ~~Arsenic~~ Metals: GHD Arsenic + lead only	Dissolved Metals: 6010 Arsenic + lead only (Lab filter + preserve)	COMMENTS	LAB USE
TB-1 (071415) RC	3	—	—	RC	N	Grab	LIQ	X					
MW-38A (071415)	21	7/14/15	1415	RC	N	Grab	GW	X	X	X	X	MS/MSD	
MW-38B (071415)	7	7/14/15	1230	RC	N	Grab	GW	X	X	X	X		
DUP-1 (071415) RC	7	7/14/15	—	RC	N	Grab	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Rachelle Coffey	7/14/15 17:00	FX		SEE TABLE 1 FOR SITE COCs.
Relinquished By: FX	Date Time:	Received By: J. Gorak (Alex)	Date Time: 7-15-15 09:00	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3-0

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FA26027: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26027 CLIENT: ARCADIS PROJECT: 9415829

DATE/TIME RECEIVED: 7-15-15 09:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8079 4184 6851

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-15-15 REVIEWER SIGNATURE/DATE 071515

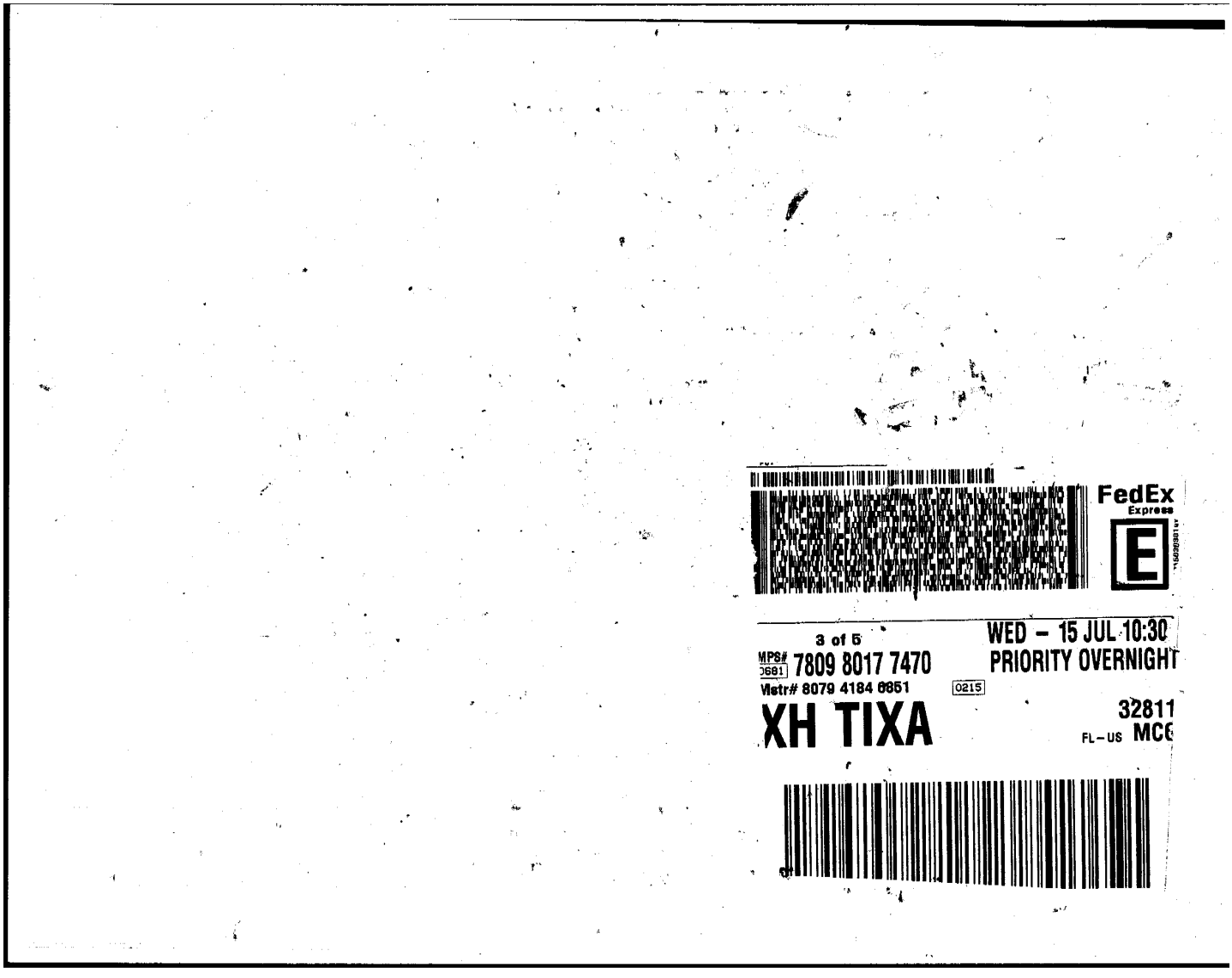
NF 10/14

receipt confirmation 102914.xls

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FA26027: Chain of Custody

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FA26027: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/28/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26079

Sampling Dates: 07/14/15 - 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26079

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26079-1	07/14/15	00:00	RW	07/16/15	AQ	Trip Blank Water	TB-4 (071415)RW
FA26079-2	07/14/15	15:56	RW	07/16/15	AQ	Ground Water	MW-47A (071415)
FA26079-2F	07/14/15	15:56	RW	07/16/15	AQ	Groundwater Filtered	MW-47A (071415)
FA26079-3	07/15/15	08:36	RW	07/16/15	AQ	Ground Water	MW-46A (071515)
FA26079-3F	07/15/15	08:36	RW	07/16/15	AQ	Groundwater Filtered	MW-46A (071515)
FA26079-4	07/15/15	09:10	RW	07/16/15	AQ	Ground Water	MW-56A (071515)
FA26079-4F	07/15/15	09:10	RW	07/16/15	AQ	Groundwater Filtered	MW-56A (071515)
FA26079-5	07/15/15	09:33	RW	07/16/15	AQ	Ground Water	MW-56B (071515)
FA26079-5F	07/15/15	09:33	RW	07/16/15	AQ	Groundwater Filtered	MW-56B (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26079

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/24/2015 3:40:45 PM

4 Sample(s), 1 Trip Blank(s) were collected on/ between 07/14/2015 and 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA26079. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3513

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26081-4MS, FA26081-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26081-4MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA26079-1, FA26079-2 have surrogates outside control limits. Probable cause is due to matrix interference.

FA26079-1 for 4-Bromofluorobenzene: Outside control limits; however, sample is ND.

FA26079-2 for Toluene-D8: Outside control limits; however, sample is ND.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26079-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26079-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26079-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26079-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26079-3: Dilution required due to matrix interference.

FA26079-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26079-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

FA26079-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26079-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26079-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26079-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26079-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26079-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29180

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2FDUP, FA26007-2FMS, FA26007-2FMSD, FA26007-2FPS, FA26007-2FSDL were used as the QC samples for metals.

MP29180-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used,

Narrative prepared by:

_____ Date: July 24, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26079-4	MSVOA	M82958.D	1,2-Dichloroethane-D4
FA26081-4MS	MSVOA	M82970.D	Carbon Tetrachloride, Cyclohexanone, Methyl Acetate, Tetrahydrofuran
FA26081-4MSD	MSVOA	M82971.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
OP56888-BS	MSSEMI	X040960.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
VM3513-BS	MSVOA	M82952.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran

21 Manual Integrations were found for FA26079

Summary of Hits

Job Number: FA26079
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15 thru 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26079-1	**TB-4 (071415)RW**					
No hits reported in this sample.						
FA26079-2	**MW-47A (071415)**					
No hits reported in this sample.						
FA26079-2F	**MW-47A (071415)**					
No hits reported in this sample.						
FA26079-3	**MW-46A (071515)**					
Benzene		0.0901	0.0050		mg/l	SW846 8260B
Toluene		0.0540	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0274	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0967	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.225	0.025		mg/l	SW846 8270D
2-Methylphenol		0.0140	0.0063		mg/l	SW846 8270D
Carbazole		0.0661	0.0063		mg/l	SW846 8270D
Dibenzofuran		0.0366	0.0063		mg/l	SW846 8270D
Acenaphthene [a]		0.0732	0.013		mg/l	SW846 8270D BY SIM
Fluorene [a]		0.0317	0.013		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene [a]		0.0339	0.013		mg/l	SW846 8270D BY SIM
Naphthalene [a]		0.127	0.013		mg/l	SW846 8270D BY SIM
Phenanthrene [a]		0.0165	0.013		mg/l	SW846 8270D BY SIM
FA26079-3F	**MW-46A (071515)**					
No hits reported in this sample.						
FA26079-4	**MW-56A (071515)**					
Naphthalene		0.0023	0.0010		mg/l	SW846 8270D BY SIM
FA26079-4F	**MW-56A (071515)**					
No hits reported in this sample.						
FA26079-5	**MW-56B (071515)**					
Benzene		0.0277	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0032	0.00099		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0015	0.00099		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA26079
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/14/15 thru 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		0.0115	0.00099		mg/l	SW846 8270D BY SIM

FA26079-5F **MW-56B (071515)**

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-4 (071415)RW		
Lab Sample ID:	FA26079-1	**Date Sampled:**	07/14/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82955.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	120% [a]		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (071415)		
Lab Sample ID:	FA26079-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82956.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	91%		79-125%
2037-26-5	Toluene-D8	114% [a]		85-112%
460-00-4	4-Bromofluorobenzene	87%		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (071415)		
Lab Sample ID:	FA26079-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040980.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	53%		33-118%
4165-60-0	Nitrobenzene-d5	53%		42-108%
321-60-8	2-Fluorobiphenyl	53%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (071415)		
Lab Sample ID:	FA26079-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051806.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	54% [a]		33-118%
4165-60-0	Nitrobenzene-d5	50% [a]		42-108%
321-60-8	2-Fluorobiphenyl	47% [a]		40-106%
1718-51-0	Terphenyl-d14	56% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (071415)		
Lab Sample ID:	FA26079-2	**Date Sampled:**	07/14/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-47A (071415)		
Lab Sample ID:	FA26079-2F	**Date Sampled:**	07/14/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A (071515)		
Lab Sample ID:	FA26079-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82957.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0901	0.0050	mg/l	
108-88-3	Toluene	0.0540	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0274	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0967	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (071515)		
Lab Sample ID:	FA26079-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040981.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2	X041058.D	4	07/23/15	MV	07/18/15	OP56888	SX1893

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2	800 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0063	mg/l	
105-67-9	2,4-Dimethylphenol	0.225 [a]	0.025	mg/l	
95-48-7	2-Methylphenol	0.0140	0.0063	mg/l	
	3&4-Methylphenol	ND	0.0063	mg/l	
108-95-2	Phenol	ND	0.0063	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0063	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0063	mg/l	
86-74-8	Carbazole	0.0661	0.0063	mg/l	
132-64-9	Dibenzofuran	0.0366	0.0063	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0063	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%	42%	14-67%
4165-62-2	Phenol-d5	29%	29%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	73%	33-118%
4165-60-0	Nitrobenzene-d5	77%	71%	42-108%
321-60-8	2-Fluorobiphenyl	70%	71%	40-106%
1718-51-0	Terphenyl-d14	78%	77%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (071515)		
Lab Sample ID:	FA26079-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	U051847.D	10	07/22/15	MG	07/18/15	OP56889	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.013	mg/l	
83-32-9	Acenaphthene	0.0732	0.013	mg/l	
208-96-8	Acenaphthylene	ND	0.013	mg/l	
120-12-7	Anthracene	ND	0.013	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0025	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0025	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0025	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0025	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0025	mg/l	
218-01-9	Chrysene	ND	0.0025	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0025	mg/l	
206-44-0	Fluoranthene	ND	0.013	mg/l	
86-73-7	Fluorene	0.0317	0.013	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0025	mg/l	
91-57-6	2-Methylnaphthalene	0.0339	0.013	mg/l	
91-20-3	Naphthalene	0.127	0.013	mg/l	
85-01-8	Phenanthrene	0.0165	0.013	mg/l	
129-00-0	Pyrene	ND	0.013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [b]		33-118%
4165-60-0	Nitrobenzene-d5	70% [b]		42-108%
321-60-8	2-Fluorobiphenyl	70% [b]		40-106%
1718-51-0	Terphenyl-d14	66% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (071515)		
Lab Sample ID:	FA26079-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A (071515)		
Lab Sample ID:	FA26079-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56A (071515)		
Lab Sample ID:	FA26079-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82958.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		83-118%
17060-07-0	1,2-Dichloroethane-D4	79%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (071515)		
Lab Sample ID:	FA26079-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040982.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	59%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56A (071515)
Lab Sample ID: FA26079-4 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051808.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0023	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58%		33-118%
4165-60-0	Nitrobenzene-d5	53%		42-108%
321-60-8	2-Fluorobiphenyl	49%		40-106%
1718-51-0	Terphenyl-d14	52%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (071515)		
Lab Sample ID:	FA26079-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56A (071515)		
Lab Sample ID:	FA26079-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (071515)		
Lab Sample ID:	FA26079-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82959.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0277	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (071515)		
Lab Sample ID:	FA26079-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040983.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (071515)		
Lab Sample ID:	FA26079-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051809.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	0.0032	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	0.0015	0.00099	mg/l	
91-20-3	Naphthalene	0.0115	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (071515)		
Lab Sample ID:	FA26079-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56B (071515)		
Lab Sample ID:	FA26079-5F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26079

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: FW CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: FW53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST. STE 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0074.UE002
PM: BRYANT GRIBBLE
Email: BRYANT.GRIBBLE@ARCADIS-US.COM
Phone: 317-634-6580 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA ONLY, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM (SITE COCs only)	TOC (MW-47A & MW-56A only)	As+Pb Dissolved metals: As 6020 Pb 7421 (Lab filter + Pres)	COMMENTS	LAB USE
1	TB-4 (071415) RW	3	7-14-15	—	—	—	—	LIQ	X					
2	MW-47A (071415)	7	7-14-15	1556	RW	N	GRAB	GW	X	X	X	X		
3	MW-46A (071515)	7	7-15-15	0836	RW	N	GRAB	GW	X	X	X	X		
4	MW-56A (071515)	7	7-15-15	0910	RW	N	GRAB	GW	X	X	X	X		
5	MW-56B (071515)	7	7-15-15	0933	RW	N	GRAB	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:
Relinquished By:	7-15-15 1800	Received By: FED-EX	
Relinquished By: FED-EX 07-16-15	Date Time: 915	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- CITY OF BLOOMINGTON PROPERTY
- PROVIDE DATA IN SEPARATE REPORT
- SEE TABLE 1 FOR SITE COCs

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 2.6 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26079: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26079 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

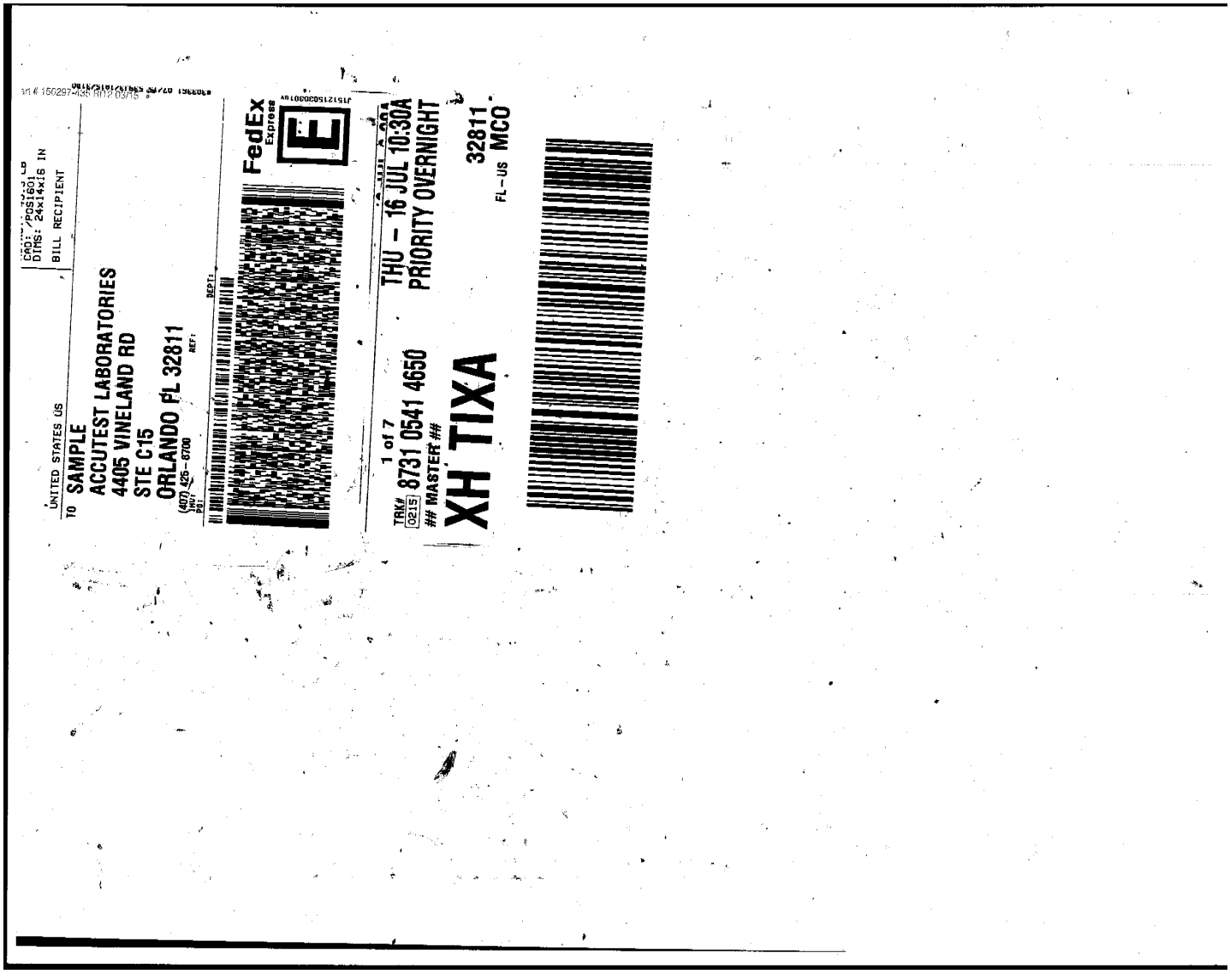
TECHNICIAN SIGNATURE/DATE 07-16-15 REVIEWER SIGNATURE/DATE 7-16-15

NF 10/14

receipt confirmation 102914.xls

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FA26079: Chain of Custody
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FA26079: Chain of Custody
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Southeast
ACCUTEST LABORATORIES

07/24/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26080

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **33**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26080

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26080-1	07/15/15	00:00	RC	07/16/15	AQ	Trip Blank Water	TB-1 (071515)RC
FA26080-2	07/15/15	09:07	RC	07/16/15	AQ	Ground Water	MW-42A (071515)
FA26080-2F	07/15/15	09:07	RC	07/16/15	AQ	Groundwater Filtered	MW-42A (071515)
FA26080-3	07/15/15	10:15	RC	07/16/15	AQ	Ground Water	MW-42B (071515)
FA26080-3F	07/15/15	10:15	RC	07/16/15	AQ	Groundwater Filtered	MW-42B (071515)
FA26080-4	07/15/15	11:50	RC	07/16/15	AQ	Ground Water	MW-39B (071515)
FA26080-4F	07/15/15	11:50	RC	07/16/15	AQ	Groundwater Filtered	MW-39B (071515)
FA26080-5	07/15/15	13:00	RC	07/16/15	AQ	Ground Water	MW-41A (071515)
FA26080-5F	07/15/15	13:00	RC	07/16/15	AQ	Groundwater Filtered	MW-41A (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26080

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/24/2015 11:55:20

4 Sample(s), 1 Trip Blank(s) were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of FA26080. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3513

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26081-4MS, FA26081-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26081-4MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA26080-2 has surrogates outside control limits.

FA26080-2 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

Matrix: AQ **Batch ID:** VM3514

Sample(s) FA26080-2 has surrogates outside control limits.

FA26080-2: Confirmation run for surrogate recoveries.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26080-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26080-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26080-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26080-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

FA26080-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26080-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26080-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26080-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26080-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26080-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26080-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26080-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26080-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26080-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26080-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26080-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29180

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2FDUP, FA26007-2FMS, FA26007-2FMSD, FA26007-2FPS, FA26007-2FSDL were used as the QC samples for metals.

MP29180-PS1 for Arsenic: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 24, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26081-4MS	MSVOA	M82970.D	Carbon Tetrachloride, Cyclohexanone, Methyl Acetate, Tetrahydrofuran
FA26081-4MSD	MSVOA	M82971.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
OP56888-BS	MSSEMI	X040960.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1891-CC1884	MSSEMI	X040992.D	Benzoic Acid, Caprolactam
VM3513-BS	MSVOA	M82952.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

21 Manual Integrations were found for FA26080

Summary of Hits

Job Number: FA26080
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26080-1	**TB-1 (071515)RC**					
No hits reported in this sample.						
FA26080-2	**MW-42A (071515)**					
Naphthalene		0.0021	0.00094		mg/l	SW846 8270D BY SIM
FA26080-2F	**MW-42A (071515)**					
No hits reported in this sample.						
FA26080-3	**MW-42B (071515)**					
No hits reported in this sample.						
FA26080-3F	**MW-42B (071515)**					
No hits reported in this sample.						
FA26080-4	**MW-39B (071515)**					
No hits reported in this sample.						
FA26080-4F	**MW-39B (071515)**					
No hits reported in this sample.						
FA26080-5	**MW-41A (071515)**					
No hits reported in this sample.						
FA26080-5F	**MW-41A (071515)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071515)RC		
Lab Sample ID:	FA26080-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82960.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	86%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071515)		
Lab Sample ID:	FA26080-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82961.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2 [a]	M82981.D	1	07/22/15	RB	n/a	n/a	VM3514

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	98%	79-125%
2037-26-5	Toluene-D8	89%	108%	85-112%
460-00-4	4-Bromofluorobenzene	80% [b]	132% [b]	83-118%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071515)		
Lab Sample ID:	FA26080-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040984.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071515)		
Lab Sample ID:	FA26080-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051810.D	1	07/20/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	0.0021	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	57% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (071515)		
Lab Sample ID:	FA26080-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (071515)		
Lab Sample ID:	FA26080-2F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (071515)		
Lab Sample ID:	FA26080-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82962.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (071515)		
Lab Sample ID:	FA26080-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040985.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	67%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (071515)		
Lab Sample ID:	FA26080-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051811.D	1	07/21/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	60% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (071515)		
Lab Sample ID:	FA26080-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42B (071515)		
Lab Sample ID:	FA26080-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (071515)		
Lab Sample ID:	FA26080-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82963.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (071515)		
Lab Sample ID:	FA26080-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X040986.D	1	07/20/15	MV	07/18/15	OP56888	SX1890
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (071515)		
Lab Sample ID:	FA26080-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051812.D	1	07/21/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	60% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (071515)		
Lab Sample ID:	FA26080-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (071515)		
Lab Sample ID:	FA26080-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/20/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29180

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (071515)		
Lab Sample ID:	FA26080-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82964.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	118%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (071515)		
Lab Sample ID:	FA26080-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041020.D	1	07/21/15	MV	07/18/15	OP56888	SX1891
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	67%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (071515)		
Lab Sample ID:	FA26080-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051813.D	1	07/21/15	MG	07/18/15	OP56889	SU2356
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	54% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (071515)		
Lab Sample ID:	FA26080-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (071515)		
Lab Sample ID:	FA26080-5F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26080

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941529
CSXT Project Name: IN CREOSOTE
CSXT Contact: DN DYER
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 5321G

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St, Ste. 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000722.0004.00002
PM: Bryant Greggs
Email: Bryant.Greggs@arcadis-us.com
Phone: 317.231-6558 Fax: 317.231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [X] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA ONLY, NO MAS Copy
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	8260	SVOCs 8270 SIM (Sed. Calc only)	TOTAL Metals: As+Pb	Dissolved metals: As+Pb (Lab Filter + Prep)	COMMENTS	LAB USE
1 TB-1 (071515) RC	2	←	—	—	~~N~~	→	HQ	X					
2 MW-42A (071515)	7	7/15/15	9:07	RC	N	GRAB	GW	X	X	X	X		
3 MW-42B (071515)	7	7/15/15	10:15	RC	N	GRAB	GW	X	X	X	X		
4 MW-39B (071515)	7	7/15/15	11:50	RC	N	GRAB	GW	X	X	X	X		
5 MW-41A (071515)	7	7/15/15	1300	RC	N	GRAB	GW	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7.15.15 1600	Received By: FP	Date Time:	SEE TABLE 1 FOR SITE COCs
Relinquished By: FP	Date Time: 07.16.15 915	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks: 2.4	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA26080: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26080 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 873105414650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

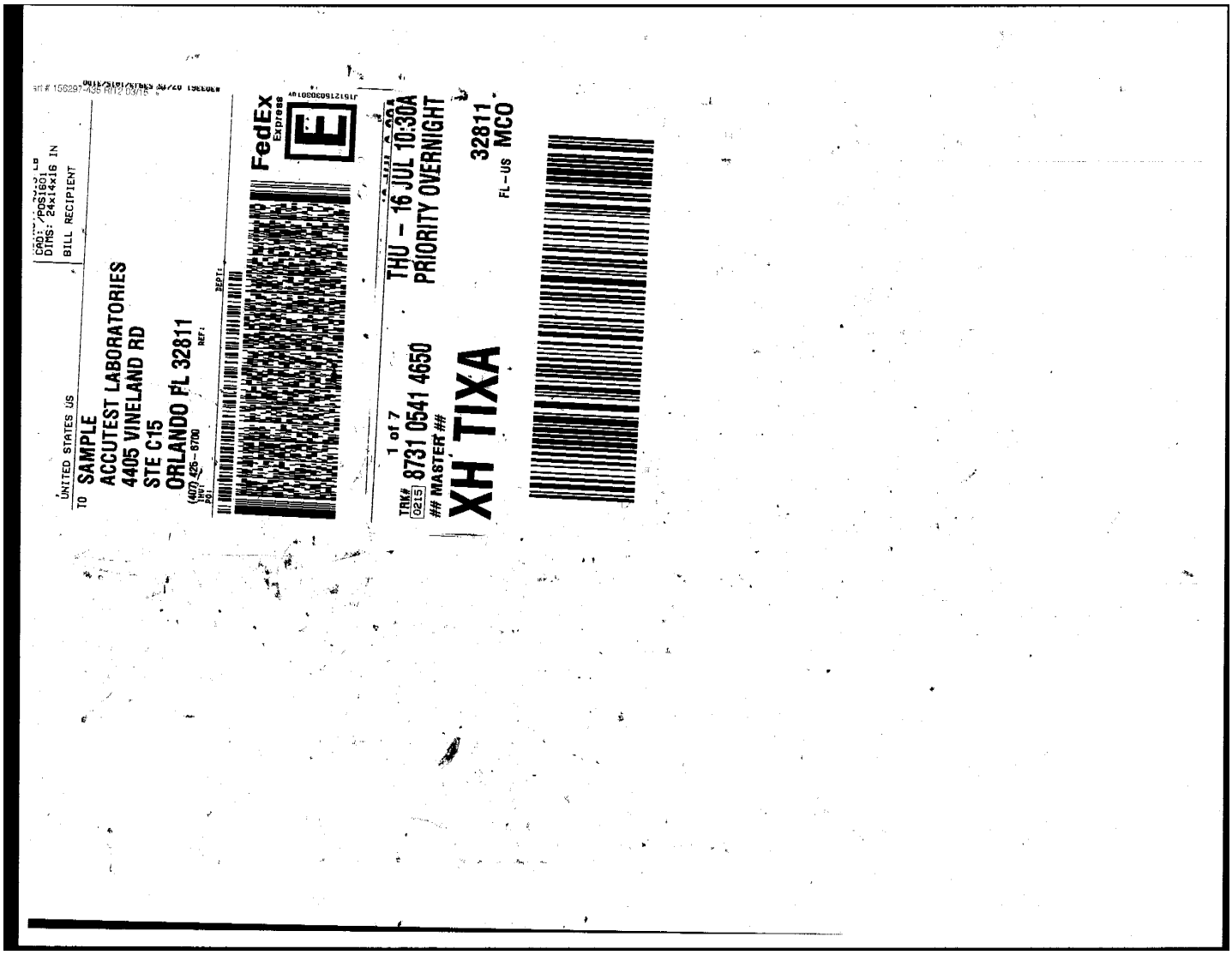
TECHNICIAN SIGNATURE/DATE 07-16-15 REVIEWER SIGNATURE/DATE 07-16-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26080: Chain of Custody
Page 2 of 3



FA26080: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26081

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **35**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26081

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26081-1	07/15/15	00:00	RW	07/16/15	AQ	Trip Blank Water	TB-2 (071515)RW
FA26081-2	07/15/15	13:25	RW	07/16/15	AQ	Ground Water	MW-29B (071515)
FA26081-2F	07/15/15	13:25	RW	07/16/15	AQ	Groundwater Filtered	MW-29B (071515)
FA26081-3	07/15/15	13:45	RW	07/16/15	AQ	Ground Water	MW-15D (071515)
FA26081-3F	07/15/15	13:45	RW	07/16/15	AQ	Groundwater Filtered	MW-15D (071515)
FA26081-4	07/15/15	14:05	RW	07/16/15	AQ	Ground Water	MW-12D (071515)
FA26081-4F	07/15/15	14:05	RW	07/16/15	AQ	Groundwater Filtered	MW-12D (071515)
FA26081-5	07/15/15	14:35	RW	07/16/15	AQ	Ground Water	RW-1 (071515)
FA26081-5F	07/15/15	14:35	RW	07/16/15	AQ	Groundwater Filtered	RW-1 (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26081

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 5:29:23 PM

4 Sample(s), 1 Trip Blank(s) were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA26081. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3513

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26081-4MS, FA26081-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26081-4MSD. Probable cause is due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VM3514

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26082-2MS, FA26082-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26082-2MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56888

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26081-4 has surrogates outside control limits.

FA26081-4: Dilution required due to matrix interference.

FA26081-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26081-4 for Terphenyl-d14: Outside control limits due to dilution.

FA26081-4 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26081-4 for Phenol-d5: Outside control limits due to dilution.

FA26081-4 for 2-Fluorophenol: Outside control limits due to dilution.

FA26081-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26081-5: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56889

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26007-2MS, FA26007-2MSD were used as the QC samples indicated.
Sample(s) FA26081-2, FA26081-3 have surrogates outside control limits.

OP56889-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56889-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26081-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26081-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26081-2 for Terphenyl-d14: Outside control limits due to dilution.

FA26081-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26081-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26081-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26081-3 for Terphenyl-d14: Outside control limits due to dilution.

FA26081-3 for Nitrobenzene-d5: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP56921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.
Sample(s) FA26081-4, FA26081-5 have surrogates outside control limits.

OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26081-4 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26081-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26081-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26081-4 for Terphenyl-d14: Outside control limits due to dilution.

FA26081-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26081-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26081-5 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26081-5 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 29, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26081-2	MSSEMI	U051848.D	Benzo(k)fluoranthene
FA26081-2	MSSEMI	X041044.D	2,4,6-Trichlorophenol
FA26081-4	MSSEMI	U051918.D	Benzo(k)fluoranthene
FA26081-4MS	MSVOA	M82970.D	Carbon Tetrachloride, Cyclohexanone, Methyl Acetate, Tetrahydrofuran
FA26081-4MSD	MSVOA	M82971.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26081-5	MSVOA	M82969.D	4-Bromofluorobenzene
FA26082-2MS	MSVOA	M83002.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-2MSD	MSVOA	M83003.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
OP56888-BS	MSSEMI	X040960.D	Caprolactam
OP56920-MS1	MSSEMI	X041075.D	Caprolactam
OP56920-MSD1	MSSEMI	X041076.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1890-CC1884	MSSEMI	X040958.D	Benzoic Acid, Caprolactam
SX1892-CC1884	MSSEMI	X041029.D	Benzoic Acid, Caprolactam
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VM3513-BS	MSVOA	M82952.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-BS	MSVOA	M82978.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

32 Manual Integrations were found for FA26081

Summary of Hits

Job Number: FA26081
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26081-1	**TB-2 (071515)RW**					
No hits reported in this sample.						
FA26081-2	**MW-29B (071515)**					
Benzene		0.113	0.025		mg/l	SW846 8260B
Toluene		0.239	0.025		mg/l	SW846 8260B
Ethylbenzene		0.171	0.025		mg/l	SW846 8260B
Xylene (total)		0.501	0.075		mg/l	SW846 8260B
2,4-Dichlorophenol		0.0275	0.022		mg/l	SW846 8270D
2,4-Dimethylphenol		0.197	0.022		mg/l	SW846 8270D
2-Methylphenol		0.0372	0.022		mg/l	SW846 8270D
3&4-Methylphenol		0.0244	0.022		mg/l	SW846 8270D
Phenol		0.0226	0.022		mg/l	SW846 8270D
2,4,6-Trichlorophenol		0.139	0.022		mg/l	SW846 8270D
Carbazole		0.292	0.022		mg/l	SW846 8270D
Dibenzofuran		0.344	0.022		mg/l	SW846 8270D
Pentachlorophenol		0.202	0.11		mg/l	SW846 8270D BY SIM
Acenaphthene		0.476	0.11		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0427	0.022		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0262	0.022		mg/l	SW846 8270D BY SIM
Chrysene		0.0348	0.022		mg/l	SW846 8270D BY SIM
Fluoranthene		0.220	0.11		mg/l	SW846 8270D BY SIM
Fluorene		0.323	0.11		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.734	0.11		mg/l	SW846 8270D BY SIM
Naphthalene		8.88	0.44		mg/l	SW846 8270D BY SIM
Phenanthrene		0.576	0.11		mg/l	SW846 8270D BY SIM
Pyrene		0.141	0.11		mg/l	SW846 8270D BY SIM
Arsenic		0.0785	0.010		mg/l	SW846 6010C
FA26081-2F	**MW-29B (071515)**					
Arsenic		0.0731	0.010		mg/l	SW846 6010C
FA26081-3	**MW-15D (071515)**					
Benzene		0.121	0.025		mg/l	SW846 8260B
Toluene		0.178	0.025		mg/l	SW846 8260B
Ethylbenzene		0.154	0.025		mg/l	SW846 8260B
Xylene (total)		0.382	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol		0.233	0.022		mg/l	SW846 8270D
2-Methylphenol		0.0922	0.022		mg/l	SW846 8270D
3&4-Methylphenol		0.0458	0.022		mg/l	SW846 8270D
Phenol		0.0745	0.022		mg/l	SW846 8270D

Summary of Hits

Job Number: FA26081
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Carbazole		0.300	0.022		mg/l	SW846 8270D
Acenaphthene		0.333	0.11		mg/l	SW846 8270D BY SIM
Fluorene		0.176	0.11		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.487	0.11		mg/l	SW846 8270D BY SIM
Naphthalene		7.44	0.44		mg/l	SW846 8270D BY SIM
Phenanthrene		0.163	0.11		mg/l	SW846 8270D BY SIM
FA26081-3F	**MW-15D (071515)**					
No hits reported in this sample.						
FA26081-4	**MW-12D (071515)**					
Benzene		0.394	0.050		mg/l	SW846 8260B
Toluene		0.493	0.050		mg/l	SW846 8260B
Ethylbenzene		0.175	0.050		mg/l	SW846 8260B
Xylene (total)		0.449	0.15		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		1.90	0.23		mg/l	SW846 8270D
2-Methylphenol [a]		0.936	0.23		mg/l	SW846 8270D
3&4-Methylphenol [a]		0.885	0.23		mg/l	SW846 8270D
Phenol [a]		0.383	0.23		mg/l	SW846 8270D
Carbazole [a]		0.457	0.23		mg/l	SW846 8270D
Dibenzofuran [a]		0.323	0.23		mg/l	SW846 8270D
Pentachlorophenol		0.227	0.045		mg/l	SW846 8270D BY SIM
Acenaphthene		0.358	0.045		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0497	0.045		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0221	0.0091		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.0099	0.0091		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0148	0.0091		mg/l	SW846 8270D BY SIM
Chrysene		0.0175	0.0091		mg/l	SW846 8270D BY SIM
Fluoranthene		0.113	0.045		mg/l	SW846 8270D BY SIM
Fluorene		0.236	0.045		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.641	0.045		mg/l	SW846 8270D BY SIM
Naphthalene		8.89	1.1		mg/l	SW846 8270D BY SIM
Phenanthrene		0.341	0.045		mg/l	SW846 8270D BY SIM
Pyrene		0.0755	0.045		mg/l	SW846 8270D BY SIM
FA26081-4F	**MW-12D (071515)**					
No hits reported in this sample.						
FA26081-5	**RW-1 (071515)**					
Benzene		0.0214	0.0050		mg/l	SW846 8260B
Toluene		0.0899	0.0050		mg/l	SW846 8260B

Summary of Hits

Job Number: FA26081
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Ethylbenzene		0.0685	0.0050		mg/l	SW846 8260B
Xylene (total)		0.189	0.015		mg/l	SW846 8260B
Carbazole [a]		0.232	0.023		mg/l	SW846 8270D
Dibenzofuran [a]		0.150	0.023		mg/l	SW846 8270D
Acenaphthene		0.203	0.045		mg/l	SW846 8270D BY SIM
Fluorene		0.142	0.045		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.185	0.045		mg/l	SW846 8270D BY SIM
Naphthalene		2.68	0.11		mg/l	SW846 8270D BY SIM
Phenanthrene		0.198	0.045		mg/l	SW846 8270D BY SIM

FA26081-5F RW-1 (071515)

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071515)RW		
Lab Sample ID:	FA26081-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82965.D	1	07/21/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29B (071515)		
Lab Sample ID:	FA26081-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82982.D	5	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.113	0.025	mg/l	
108-88-3	Toluene	0.239	0.025	mg/l	
100-41-4	Ethylbenzene	0.171	0.025	mg/l	
1330-20-7	Xylene (total)	0.501	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	112%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29B (071515)		
Lab Sample ID:	FA26081-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041044.D	4	07/22/15	MV	07/18/15	OP56888	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0275	0.022	mg/l	
105-67-9	2,4-Dimethylphenol	0.197	0.022	mg/l	
95-48-7	2-Methylphenol	0.0372	0.022	mg/l	
	3&4-Methylphenol	0.0244	0.022	mg/l	
108-95-2	Phenol	0.0226	0.022	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.139	0.022	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.022	mg/l	
86-74-8	Carbazole	0.292	0.022	mg/l	
132-64-9	Dibenzofuran	0.344	0.022	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.022	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	55%		33-118%
4165-60-0	Nitrobenzene-d5	90%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-29B (071515)
Lab Sample ID: FA26081-2 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051848.D	100	07/22/15	MG	07/18/15	OP56889	SU2358
Run #2	U051868.D	400	07/23/15	ME	07/18/15	OP56889	SU2359

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2	900 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.202	0.11	mg/l	
83-32-9	Acenaphthene	0.476	0.11	mg/l	
208-96-8	Acenaphthylene	ND	0.11	mg/l	
120-12-7	Anthracene	ND	0.11	mg/l	
56-55-3	Benzo(a)anthracene	0.0427	0.022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.022	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0262	0.022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.022	mg/l	
218-01-9	Chrysene	0.0348	0.022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.022	mg/l	
206-44-0	Fluoranthene	0.220	0.11	mg/l	
86-73-7	Fluorene	0.323	0.11	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.022	mg/l	
91-57-6	2-Methylnaphthalene	0.734	0.11	mg/l	
91-20-3	Naphthalene	8.88 [a]	0.44	mg/l	
85-01-8	Phenanthrene	0.576	0.11	mg/l	
129-00-0	Pyrene	0.141	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29B (071515)		
Lab Sample ID:	FA26081-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0785	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29B (071515)		
Lab Sample ID:	FA26081-2F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0731	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15D (071515)		
Lab Sample ID:	FA26081-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82967.D	5	07/22/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.121	0.025	mg/l	
108-88-3	Toluene	0.178	0.025	mg/l	
100-41-4	Ethylbenzene	0.154	0.025	mg/l	
1330-20-7	Xylene (total)	0.382	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15D (071515)		
Lab Sample ID:	FA26081-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041045.D	4	07/22/15	MV	07/18/15	OP56888	SX1892
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.022	mg/l	
105-67-9	2,4-Dimethylphenol	0.233	0.022	mg/l	
95-48-7	2-Methylphenol	0.0922	0.022	mg/l	
	3&4-Methylphenol	0.0458	0.022	mg/l	
108-95-2	Phenol	0.0745	0.022	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.022	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.022	mg/l	
86-74-8	Carbazole	0.300	0.022	mg/l	
132-64-9	Dibenzofuran	ND	0.022	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.022	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-67%
4165-62-2	Phenol-d5	30%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	81%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15D (071515)		
Lab Sample ID:	FA26081-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051849.D	100	07/22/15	MG	07/18/15	OP56889	SU2358
Run #2	U051869.D	400	07/23/15	ME	07/18/15	OP56889	SU2359

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2	900 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.11	mg/l	
83-32-9	Acenaphthene	0.333	0.11	mg/l	
208-96-8	Acenaphthylene	ND	0.11	mg/l	
120-12-7	Anthracene	ND	0.11	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.022	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.022	mg/l	
218-01-9	Chrysene	ND	0.022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.022	mg/l	
206-44-0	Fluoranthene	ND	0.11	mg/l	
86-73-7	Fluorene	0.176	0.11	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.022	mg/l	
91-57-6	2-Methylnaphthalene	0.487	0.11	mg/l	
91-20-3	Naphthalene	7.44 [a]	0.44	mg/l	
85-01-8	Phenanthrene	0.163	0.11	mg/l	
129-00-0	Pyrene	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-15D (071515)		
Lab Sample ID:	FA26081-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15D (071515)		
Lab Sample ID:	FA26081-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12D (071515)		
Lab Sample ID:	FA26081-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82968.D	10	07/22/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.394	0.050	mg/l	
108-88-3	Toluene	0.493	0.050	mg/l	
100-41-4	Ethylbenzene	0.175	0.050	mg/l	
1330-20-7	Xylene (total)	0.449	0.15	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	112%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D (071515)		
Lab Sample ID:	FA26081-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X041104.D	40	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.23	mg/l	
105-67-9	2,4-Dimethylphenol	1.90	0.23	mg/l	
95-48-7	2-Methylphenol	0.936	0.23	mg/l	
	3&4-Methylphenol	0.885	0.23	mg/l	
108-95-2	Phenol	0.383	0.23	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.23	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.23	mg/l	
86-74-8	Carbazole	0.457	0.23	mg/l	
132-64-9	Dibenzofuran	0.323	0.23	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.23	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		14-67%
4165-62-2	Phenol-d5	0% [b]		10-50%
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D (071515)		
Lab Sample ID:	FA26081-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051918.D	40	07/24/15	ME	07/21/15	OP56921	SU2360
Run #2	U051919.D	1000	07/24/15	ME	07/21/15	OP56921	SU2360

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2	880 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.227	0.045	mg/l	
83-32-9	Acenaphthene	0.358	0.045	mg/l	
208-96-8	Acenaphthylene	0.0497	0.045	mg/l	
120-12-7	Anthracene	ND	0.045	mg/l	
56-55-3	Benzo(a)anthracene	0.0221	0.0091	mg/l	
50-32-8	Benzo(a)pyrene	0.0099	0.0091	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0148	0.0091	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0091	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0091	mg/l	
218-01-9	Chrysene	0.0175	0.0091	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0091	mg/l	
206-44-0	Fluoranthene	0.113	0.045	mg/l	
86-73-7	Fluorene	0.236	0.045	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0091	mg/l	
91-57-6	2-Methylnaphthalene	0.641	0.045	mg/l	
91-20-3	Naphthalene	8.89 [a]	1.1	mg/l	
85-01-8	Phenanthrene	0.341	0.045	mg/l	
129-00-0	Pyrene	0.0755	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12D (071515)		
Lab Sample ID:	FA26081-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12D (071515)		
Lab Sample ID:	FA26081-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-1 (071515)		
Lab Sample ID:	FA26081-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82969.D	1	07/22/15	RB	n/a	n/a	VM3513
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0214	0.0050	mg/l	
108-88-3	Toluene	0.0899	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0685	0.0050	mg/l	
1330-20-7	Xylene (total)	0.189	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	83%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-1 (071515)		
Lab Sample ID:	FA26081-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X041105.D	4	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.023	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.023	mg/l	
95-48-7	2-Methylphenol	ND	0.023	mg/l	
	3&4-Methylphenol	ND	0.023	mg/l	
108-95-2	Phenol	ND	0.023	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.023	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.023	mg/l	
86-74-8	Carbazole	0.232	0.023	mg/l	
132-64-9	Dibenzofuran	0.150	0.023	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.023	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	30%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-1 (071515)
Lab Sample ID: FA26081-5 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051902.D	40	07/23/15	ME	07/21/15	OP56921	SU2359
Run #2	U051920.D	100	07/24/15	ME	07/21/15	OP56921	SU2360

	Initial Volume	Final Volume
Run #1	880 ml	1.0 ml
Run #2	880 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.045	mg/l	
83-32-9	Acenaphthene	0.203	0.045	mg/l	
208-96-8	Acenaphthylene	ND	0.045	mg/l	
120-12-7	Anthracene	ND	0.045	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0091	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0091	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0091	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0091	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0091	mg/l	
218-01-9	Chrysene	ND	0.0091	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0091	mg/l	
206-44-0	Fluoranthene	ND	0.045	mg/l	
86-73-7	Fluorene	0.142	0.045	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0091	mg/l	
91-57-6	2-Methylnaphthalene	0.185	0.045	mg/l	
91-20-3	Naphthalene	2.68 [a]	0.11	mg/l	
85-01-8	Phenanthrene	0.198	0.045	mg/l	
129-00-0	Pyrene	ND	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-1 (071515)		
Lab Sample ID:	FA26081-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	RW-1 (071515)		
Lab Sample ID:	FA26081-5F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26081

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: IN CREOSOTE
CSXT Project Name: 9415829
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. WASHINGTON ST, STE. 600
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000722.0074.00002
PM: BRYANT GRIBBS
Email: BRYANT.GRIBBS@ARCADIS-US.COM
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: DATA CD only, NO HARD COPY
- [x] EDD Required, Format: EXCEL

Preservative Codes:
0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes:
GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0
Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM (ACID ONLY)	Total Metals As+Pb	Dissolved Metals As+Pb (Lab Filtered)	COMMENTS	LAB USE
1	TB-2 (071515) (RW)	3	7-15-15	—	—	—	—	LIQ	X					
2	MW-29S (071515)	7	↓	1325	RW	N	GRAB	GW	X	X	X	X		
3	MW-15D (071515)	7		1345					X	X	X	X		
4	MW-12D (071515)	7		1405					X	X	X	X		
5	RW-1 (071515)	7	↓	1435	↓	↓	↓	↓	X	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7-15-15 1800			SEE TABLE 1 FOR SITE COCs
Relinquished By:	07-16-15 915			
Relinquished By:				
Received By Laboratory:		Lab Remarks: 2.8	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26081: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26081 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

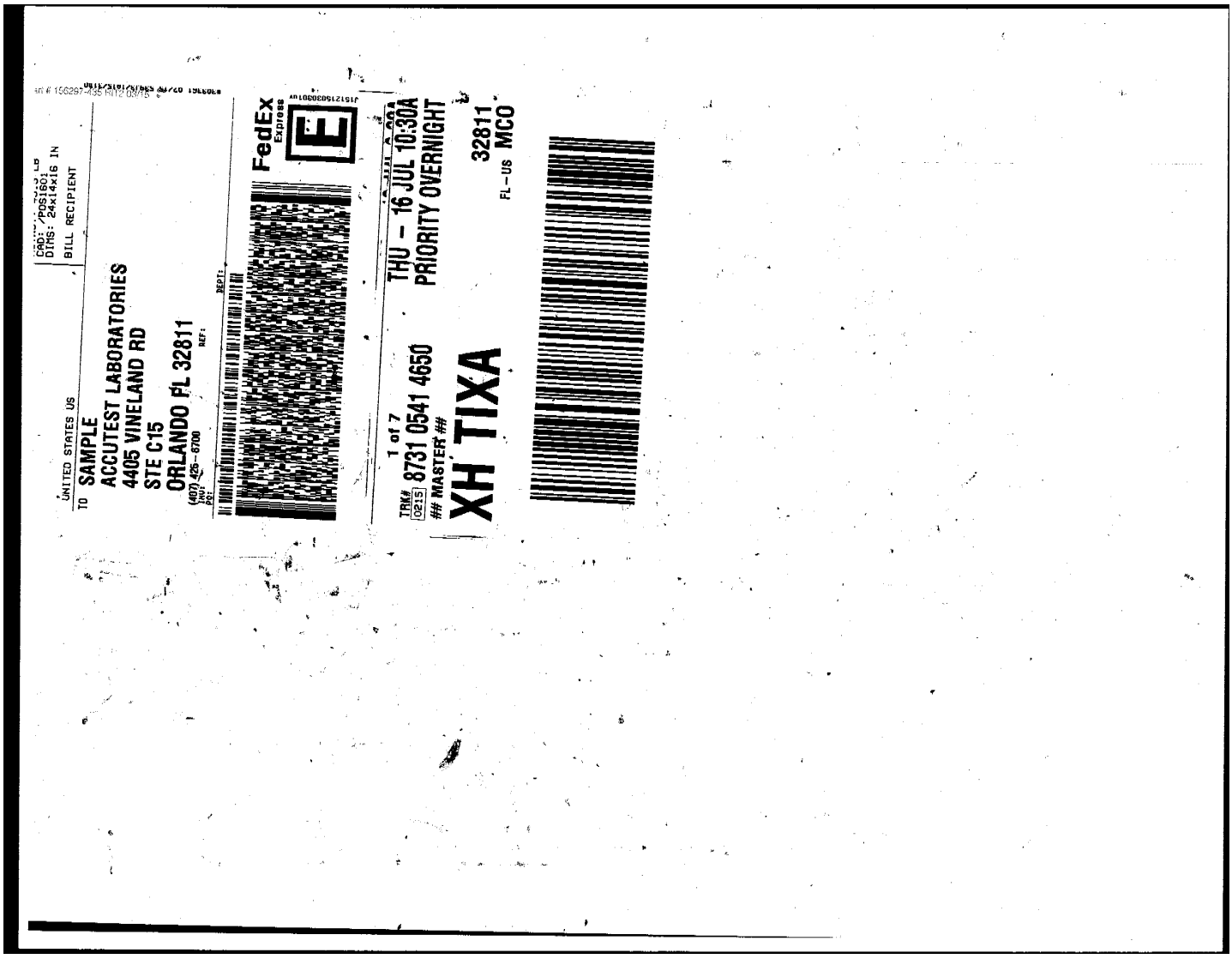
TECHNICIAN SIGNATURE/DATE [signature] 07-16-15 REVIEWER SIGNATURE/DATE [signature] 7-16-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26081: Chain of Custody
Page 2 of 3



FA26081: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26082

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **37**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26082

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26082-1	07/15/15	00:00	BC	07/16/15	AQ	Trip Blank Water	TB-1 (071515)BC
FA26082-2	07/15/15	09:11	BC	07/16/15	AQ	Ground Water	MW-8D (071515)
FA26082-3	07/15/15	10:50	BC	07/16/15	AQ	Ground Water	MW-18D (071515)
FA26082-4	07/15/15	12:20	BC	07/16/15	AQ	Ground Water	MW-19S (071515)
FA26082-4F	07/15/15	12:20	BC	07/16/15	AQ	Groundwater Filtered	MW-19S (071515)
FA26082-5	07/15/15	11:20	BC	07/16/15	AQ	Ground Water	MW-8S (071515)
FA26082-5F	07/15/15	11:20	BC	07/16/15	AQ	Groundwater Filtered	MW-8S (071515)
FA26082-6	07/15/15	10:00	BC	07/16/15	AQ	Ground Water	MW-18S (071515)
FA26082-6F	07/15/15	10:00	BC	07/16/15	AQ	Groundwater Filtered	MW-18S (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26082

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 5:30:07 PM

5 Sample(s) and 1 Trip Blank were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA26082. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3514

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26082-2MS, FA26082-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26082-2MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA26082-4 has surrogates outside control limits. Probable cause is due to matrix interference.

FA26082-2: Confirmation run.

FA26082-4 for 4-Bromofluorobenzene: Outside control limits; however, sample is ND.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

FA26082-2: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26082-2 has surrogates outside control limits.

OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26082-2 for Terphenyl-d14: Outside control limits due to dilution.

FA26082-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26082-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26082-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26082-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26082-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26082-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26082-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56921

FA26082-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26082-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26082-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26082-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26082-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26082-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26082-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26082-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26082-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26082-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26082-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26082-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29177

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2FDUP, FA26027-2FMS, FA26027-2FMSD, FA26027-2FPS, FA26027-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29178

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26059-5DUP, FA26059-5MS, FA26059-5MSD, FA26059-5PS, FA26059-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP29178-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 29, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26082-2MS	MSVOA	M83002.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-2MSD	MSVOA	M83003.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-4	MSSEMI	U051922.D	Benzo(k)fluoranthene
FA26082-6	MSSEMI	U051924.D	Benzo(k)fluoranthene
OP56920-MS1	MSSEMI	X041075.D	Caprolactam
OP56920-MSD1	MSSEMI	X041076.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-BS	MSVOA	M82978.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

24 Manual Integrations were found for FA26082

Summary of Hits

Job Number: FA26082
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26082-1	**TB-1 (071515)BC**					
No hits reported in this sample.						
FA26082-2	**MW-8D (071515)**					
Benzene		0.0428	0.0050		mg/l	SW846 8260B
Toluene		0.0275	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0264	0.0050		mg/l	SW846 8260B
Xylene (total)		0.140	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0630	0.020		mg/l	SW846 8270D
Carbazole [a]		0.176	0.020		mg/l	SW846 8270D
Dibenzofuran [a]		0.108	0.020		mg/l	SW846 8270D
Acenaphthene		0.187	0.039		mg/l	SW846 8270D BY SIM
Fluorene		0.0974	0.039		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.130	0.039		mg/l	SW846 8270D BY SIM
Naphthalene		1.78	0.098		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0608	0.039		mg/l	SW846 8270D BY SIM
FA26082-3	**MW-18D (071515)**					
Acenaphthene		0.0014	0.00098		mg/l	SW846 8270D BY SIM
Naphthalene		0.0029	0.00098		mg/l	SW846 8270D BY SIM
FA26082-4	**MW-19S (071515)**					
Benzo(a)pyrene		0.00024	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00045	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00021	0.00019		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00027	0.00019		mg/l	SW846 8270D BY SIM
Arsenic		0.0388	0.010		mg/l	SW846 6010C
Lead		0.0420	0.0050		mg/l	SW846 6010C
FA26082-4F	**MW-19S (071515)**					
No hits reported in this sample.						
FA26082-5	**MW-8S (071515)**					
Acenaphthene		0.0046	0.00098		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.00079	0.00020		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.0015	0.00020		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0019	0.00020		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.0012	0.00020		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00060	0.00020		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA26082
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chrysene		0.0015	0.00020		mg/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.00021	0.00020		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0019	0.00098		mg/l	SW846 8270D BY SIM
Fluorene		0.0023	0.00098		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.0015	0.00020		mg/l	SW846 8270D BY SIM
Naphthalene		0.0011	0.00098		mg/l	SW846 8270D BY SIM
Pyrene		0.0012	0.00098		mg/l	SW846 8270D BY SIM
Lead		0.0073	0.0050		mg/l	SW846 6010C

FA26082-5F MW-8S (071515)

No hits reported in this sample.

FA26082-6 MW-18S (071515)

No hits reported in this sample.

FA26082-6F MW-18S (071515)

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071515)BC		
Lab Sample ID:	FA26082-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82983.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (071515)		
Lab Sample ID:	FA26082-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82984.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2 [a]	M83001.D	10	07/22/15	RB	n/a	n/a	VM3514

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0428	0.0050	mg/l	
108-88-3	Toluene	0.0275	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0264	0.0050	mg/l	
1330-20-7	Xylene (total)	0.140	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	100%	79-125%
2037-26-5	Toluene-D8	106%	95%	85-112%
460-00-4	4-Bromofluorobenzene	103%	96%	83-118%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (071515)		
Lab Sample ID:	FA26082-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X041106.D	4	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	0.0630	0.020	mg/l	
95-48-7	2-Methylphenol	ND	0.020	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.176	0.020	mg/l	
132-64-9	Dibenzofuran	0.108	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (071515)		
Lab Sample ID:	FA26082-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051903.D	40	07/23/15	ME	07/21/15	OP56921	SU2359
Run #2	U051921.D	100	07/24/15	ME	07/21/15	OP56921	SU2360

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.039	mg/l	
83-32-9	Acenaphthene	0.187	0.039	mg/l	
208-96-8	Acenaphthylene	ND	0.039	mg/l	
120-12-7	Anthracene	ND	0.039	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0078	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0078	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0078	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0078	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0078	mg/l	
218-01-9	Chrysene	ND	0.0078	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0078	mg/l	
206-44-0	Fluoranthene	ND	0.039	mg/l	
86-73-7	Fluorene	0.0974	0.039	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0078	mg/l	
91-57-6	2-Methylnaphthalene	0.130	0.039	mg/l	
91-20-3	Naphthalene	1.78 [a]	0.098	mg/l	
85-01-8	Phenanthrene	0.0608	0.039	mg/l	
129-00-0	Pyrene	ND	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (071515)		
Lab Sample ID:	FA26082-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-18D (071515)
Lab Sample ID: FA26082-3 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82985.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	88%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	111%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18D (071515)		
Lab Sample ID:	FA26082-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041077.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	54%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18D (071515)		
Lab Sample ID:	FA26082-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051904.D	1	07/24/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	0.0014	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	0.0029	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18D (071515)		
Lab Sample ID:	FA26082-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29177

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19S (071515)		
Lab Sample ID:	FA26082-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82986.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	111%		85-112%
460-00-4	4-Bromofluorobenzene	139% [a]		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S (071515)		
Lab Sample ID:	FA26082-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041078.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	63%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S (071515)		
Lab Sample ID:	FA26082-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051922.D	1	07/24/15	ME	07/21/15	OP56921	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00024	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00045	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00021	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00027	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	53% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19S (071515)		
Lab Sample ID:	FA26082-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0388	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0420	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19S (071515)		
Lab Sample ID:	FA26082-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8S (071515)		
Lab Sample ID:	FA26082-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82987.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8S (071515)		
Lab Sample ID:	FA26082-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041079.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8S (071515)		
Lab Sample ID:	FA26082-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051923.D	1	07/24/15	ME	07/21/15	OP56921	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	0.0046	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	0.00079	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	0.0015	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0019	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.0012	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00060	0.00020	mg/l	
218-01-9	Chrysene	0.0015	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.00021	0.00020	mg/l	
206-44-0	Fluoranthene	0.0019	0.00098	mg/l	
86-73-7	Fluorene	0.0023	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0015	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	0.0011	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	0.0012	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8S (071515)		
Lab Sample ID:	FA26082-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0073	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-8S (071515)		
Lab Sample ID:	FA26082-5F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-18S (071515)		
Lab Sample ID:	FA26082-6	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82988.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S (071515)		
Lab Sample ID:	FA26082-6	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041080.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S (071515)		
Lab Sample ID:	FA26082-6	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051924.D	1	07/24/15	ME	07/21/15	OP56921	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	66% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S (071515)		
Lab Sample ID:	FA26082-6	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-18S (071515)		
Lab Sample ID:	FA26082-6F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26082

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION		COC # 1 of 1
Accutest	Phone: 407-425-6700	SHIPMENT INFORMATION
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Method: Fed Ex
Orlando, FL 32811		Shipment Tracking No:

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: ARCADIS	Project #: IN000772.0074.00002
CSXT Project Name: IN CREOSOTE	Proj. City: Bloomington	Address: 132 E. Washington St., Ste 600	PM: Bryant Gribbles
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN 46204	Email: Bryant.Gribbles@arcadis-us.com
		Phone: 317-231-6500	Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days, Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: Data on only No Hard Copy
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 | 0 | 2 | 0

METHODS FOR ANALYSIS: BTEX 8260; SVOCs 8270 SIM (Site list only); Total Metals: As+Pb; Dissolved Metals: As+Pb (Lab Filter + Pres)

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 SIM	Total Metals	Dissolved Metals	COMMENTS	LAB USE
1 TB-1(071515)BC	2	7/15/15	—	—	—	—	liq	X					
2 MW-8D(071515)	~~7~~ 6	7/15/15	0911	BC	N	Grab	GW	X	X	X	[scribbled]		
3 MW-18D(071515)	~~7~~ 6	7/15/15	1050	BC	N	Grab	GW	X	X	X	[scribbled]		
4 MW-19S(071515)	~~6~~ 7	7/15/15	1220	BC	N	Grab	GW	X	X	X	X		
5 MW-8S(071515)	7	7/15/15	1120	BC	N	Grab	GW	X	X	X	X		
6 MW-18S(071515)	7	7/15/15	1000	BC	N	Grab	GW	X	X	X	X		

Relinquished By: [signature]	Date Time: 7/15/15 / 1800	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 071615 915	Received By: [signature]	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks: 2.6	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements: -See Table 1 for Site List

Custody Seal #

LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1
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FA26082: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26082 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 3

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

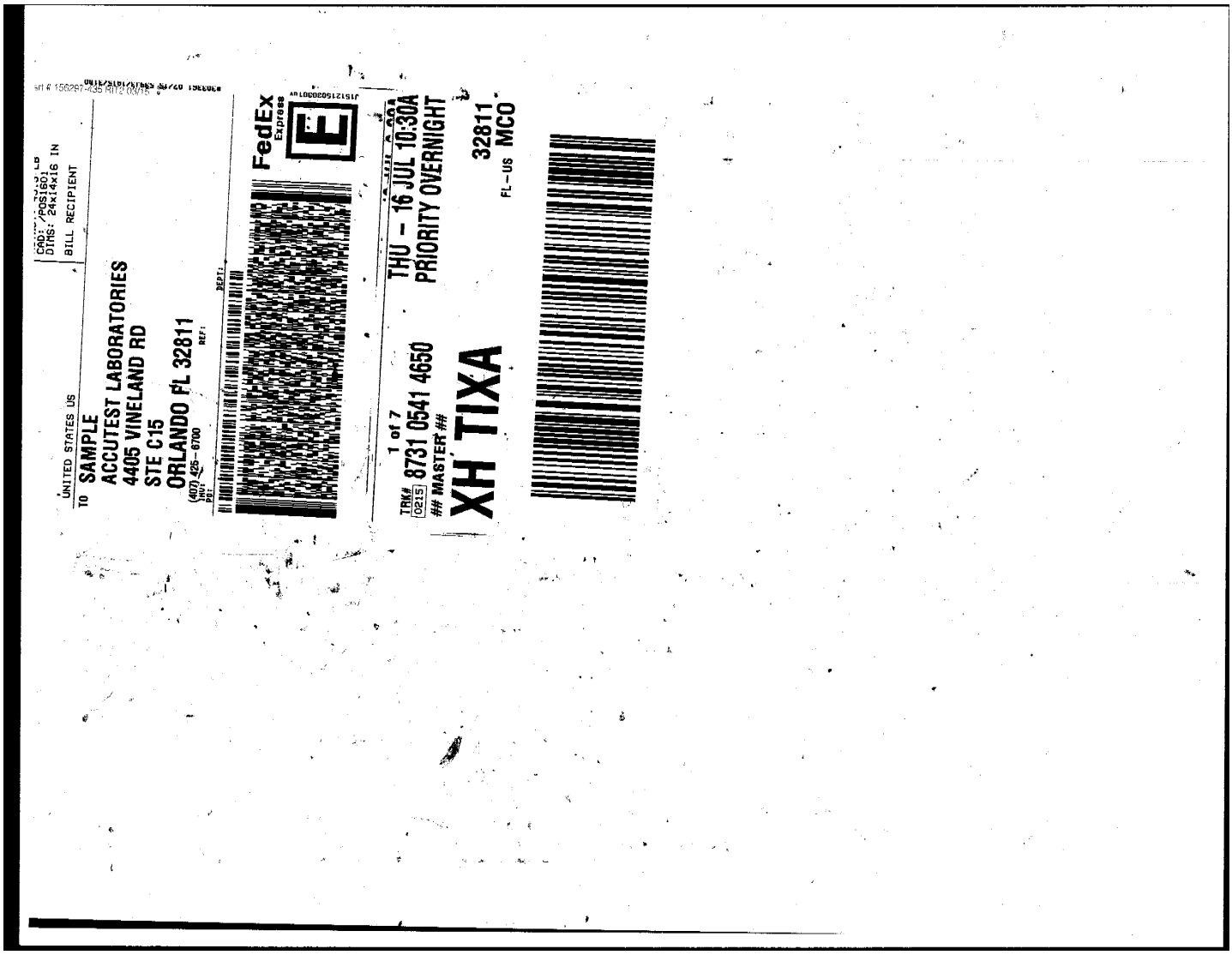
SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE RWW 07-16-15 REVIEWER SIGNATURE/DATE JC 7-16-15

NF 10/14 receipt confirmation 102914.xls

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FA26082: Chain of Custody
Page 2 of 3



FA26082: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0047.00002

Accutest Job Number: FA26083

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **27**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26083

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0047.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26083-1	07/15/15	00:00	RC	07/16/15	AQ	Trip Blank Water	TB-2 (071515)RC
FA26083-2	07/15/15	17:05	RC	07/16/15	AQ	Ground Water	MW-5S (071515)RC
FA26083-2F	07/15/15	17:05	RC	07/16/15	AQ	Groundwater Filtered	MW-5S (071515)RC
FA26083-3	07/15/15	15:45	RC	07/16/15	AQ	Ground Water	MW-38C (071515)
FA26083-3F	07/15/15	15:45	RC	07/16/15	AQ	Groundwater Filtered	MW-38C (071515)
FA26083-4	07/15/15	14:37	RC	07/16/15	AQ	Ground Water	MW-38D (071515)
FA26083-4F	07/15/15	14:37	RC	07/16/15	AQ	Groundwater Filtered	MW-38D (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26083

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 11:01:24

3 Sample(s), 1 Trip Blank(s) were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of FA26083. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3514

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26082-2MS, FA26082-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26082-2MSD. Probable cause is due to sample non-homogeneity.

FA26083-2: Sample was not preserved to a pH < 2.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26083-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26083-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26083-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26083-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26083-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26083-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26083-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26083-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26083-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26083-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26083-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26083-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29178

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26059-5DUP, FA26059-5MS, FA26059-5MSD, FA26059-5PS, FA26059-5SDL were used as the QC samples.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP29178-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 29, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26082-2MS	MSVOA	M83002.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-2MSD	MSVOA	M83003.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
OP56920-MS1	MSSEMI	X041075.D	Caprolactam
OP56920-MSD1	MSSEMI	X041076.D	Caprolactam
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-BS	MSVOA	M82978.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

22 Manual Integrations were found for FA26083

Summary of Hits

Job Number: FA26083
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26083-1	**TB-2 (071515)RC**					
No hits reported in this sample.						
FA26083-2	**MW-5S (071515)RC**					
Arsenic		0.0330	0.010		mg/l	SW846 6010C
Lead		0.0395	0.0050		mg/l	SW846 6010C
FA26083-2F	**MW-5S (071515)RC**					
No hits reported in this sample.						
FA26083-3	**MW-38C (071515)**					
No hits reported in this sample.						
FA26083-3F	**MW-38C (071515)**					
No hits reported in this sample.						
FA26083-4	**MW-38D (071515)**					
No hits reported in this sample.						
FA26083-4F	**MW-38D (071515)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071515)RC		
Lab Sample ID:	FA26083-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82989.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	88%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071515)RC		
Lab Sample ID:	FA26083-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M82990.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071515)RC		
Lab Sample ID:	FA26083-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041081.D	1	07/23/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071515)RC		
Lab Sample ID:	FA26083-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051908.D	1	07/24/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5S (071515)RC		
Lab Sample ID:	FA26083-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0330	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0395	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5S (071515)RC		
Lab Sample ID:	FA26083-2F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (071515)		
Lab Sample ID:	FA26083-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82991.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (071515)		
Lab Sample ID:	FA26083-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041082.D	1	07/24/15	MV	07/21/15	OP56920	SX1893
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (071515)		
Lab Sample ID:	FA26083-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051909.D	1	07/24/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (071515)		
Lab Sample ID:	FA26083-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (071515)		
Lab Sample ID:	FA26083-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (071515)		
Lab Sample ID:	FA26083-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82992.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (071515)		
Lab Sample ID:	FA26083-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041099.D	1	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (071515)		
Lab Sample ID:	FA26083-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051910.D	1	07/24/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (071515)		
Lab Sample ID:	FA26083-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (071515)		
Lab Sample ID:	FA26083-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26083

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 OF 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FEDEX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
CSXT Project Name: IN CREOSOTE
Proj. City: BLOOMINGTON
CSXT Contact: DAN DYER
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Project #: IN000072.0074.00002
PM: BRYANT GRIGGS
Address: 132 E. WASHINGTON ST #1600
Email: bryant.griggs@arcadis-us.com
City, State, Zip: INDIANAPOLIS, IN 46204
Phone: (317) 223-6580
Fax: (317) 231-6500

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD ONLY, NO HARD COPY
- [X] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCS 8270 SIM (SITE COCs ONLY)	TOTAL METALS: AS + Pb	DISSOLVED METALS: AS + Pb (LAB FILTER + PRESERVE)	COMMENTS	LAB USE
1	TB-2 (071515) RC	3	—	—	—	—	—	LQ	X					
2	MW-5S (071515) RC	7	7/15/15	17:05	RC	N	GRAB	GW	X	X	X	X		
3	MW-38C (071515)	7	7/15/15	15:45	RC	N	GRAB	GW	X	X	X	X		
4	MW-38D (071515)	7	7/15/15	14:37	RC	N	GRAB	GW	X	X	X	X		

	Relinquished By	Date Time	Received By	Date Time
1	Rachelle Gifford	7/15/15 / 18:00	FP	
2	FP	07/16/15 915		
3				

Received By Laboratory: — Date Time: — Lab Remarks: 2-4

Comments & Special Analytical Requirements: SEE TABLE 1 FOR SITE COCs

LAB USE: Custody Intact ☐ Yes ☐ No — Custody Seal # — LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA26083: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26083 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16 15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER: _____

AIRBILL NUMBERS: 873105414650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [✓] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [✓] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [✓] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 3

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.6
- [ ] CORRECTED TEMPS: 2.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT# _____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: _____

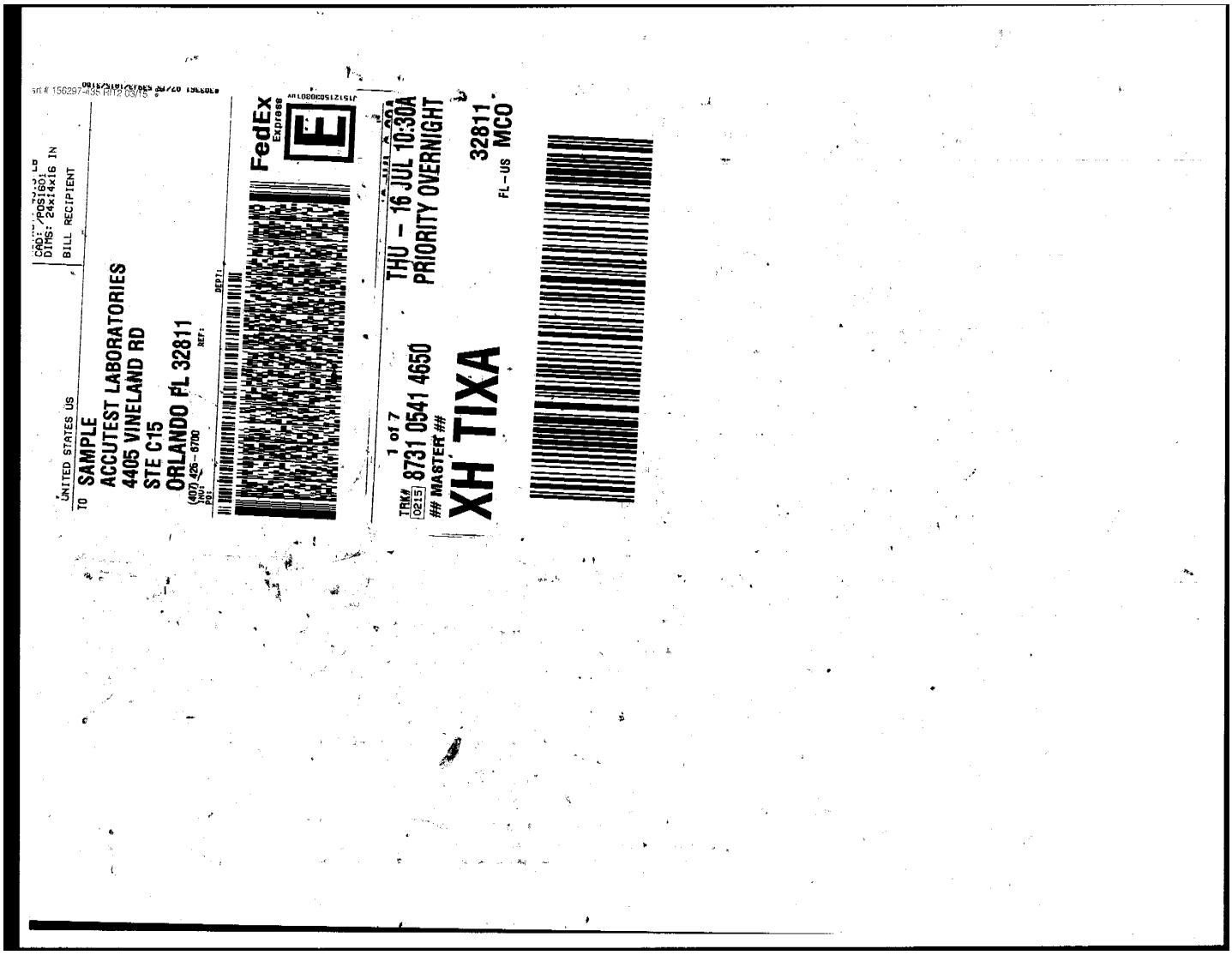
TECHNICIAN SIGNATURE/DATE [signature] 07-16-15 REVIEWER SIGNATURE/DATE [signature] 7-16-15

NF 10/14

receipt confirmation 102914.xls

5.1.5

FA26083: Chain of Custody
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5.1 5

FA26083: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

08/04/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26084

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26084

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26084-1	07/15/15	00:00	RW	07/16/15	AQ	Trip Blank Water	TB-1 (071515)RW
FA26084-2	07/15/15	10:19	RW	07/16/15	AQ	Ground Water	MW-37A (071515)
FA26084-2F	07/15/15	10:19	RW	07/16/15	AQ	Groundwater Filtered	MW-37A (071515)
FA26084-3	07/15/15	10:47	RW	07/16/15	AQ	Ground Water	MW-37B (071515)
FA26084-3F	07/15/15	10:47	RW	07/16/15	AQ	Groundwater Filtered	MW-37B (071515)
FA26084-4	07/15/15	11:13	RW	07/16/15	AQ	Ground Water	MW-37C (071515)
FA26084-4F	07/15/15	11:13	RW	07/16/15	AQ	Groundwater Filtered	MW-37C (071515)
FA26084-5	07/15/15	13:00	RW	07/16/15	AQ	Ground Water	MW-16D (071515)
FA26084-5F	07/15/15	13:00	RW	07/16/15	AQ	Groundwater Filtered	MW-16D (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26084

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/4/2015 10:57:35 AM

4 Sample(s) and 1 Trip Blank were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA26084. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3514

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26082-2MS, FA26082-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26082-2MSD. Probable cause is due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VM3515

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2MS, FA26127-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Benzene, Ethylbenzene, Xylene (total) are outside control limits for sample FA26127-2MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56920

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56924

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-5MS, FA26084-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

FA26084-5: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56921

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2MS, FA26026-2MSD were used as the QC samples indicated.

Sample(s) FA26084-4 has surrogates outside control limits.

OP56921-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP56921-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP56921-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP56921-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.\

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56921

FA26084-4 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
FA26084-4 for 2-Fluorobiphenyl: Outside control limits due to dilution.
FA26084-4 for Nitrobenzene-d5: Outside control limits due to dilution.
FA26084-4 for Terphenyl-d14: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP56925

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-3MS, FA26084-3MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Acenaphthene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Recovery for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Sample(s) FA26084-5 has surrogates outside control limits.

OP56925-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
OP56925-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP56925-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP56925-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26084-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26084-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26084-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26084-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26084-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26084-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26084-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26084-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26084-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26084-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26084-5 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26084-5 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29178

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26059-5DUP, FA26059-5MS, FA26059-5MSD, FA26059-5PS, FA26059-5SDL were used as the QC samples.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP29178-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29185

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26026-2DUP, FA26026-2MS, FA26026-2MSD, FA26026-2PS, FA26026-2SDL were used as the QC samples.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29185-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: August 4, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26082-2MS	MSVOA	M83002.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-2MSD	MSVOA	M83003.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26084-4	MSSEMI	U051911.D	Chrysene
FA26127-2MS	MSVOA	M83034.D	Carbon Tetrachloride, Tetrahydrofuran
FA26127-2MSD	MSVOA	M83035.D	Carbon Tetrachloride, Methyl Bromide, Tetrahydrofuran
OP56920-MS1	MSSEMI	X041075.D	Caprolactam
OP56920-MSD1	MSSEMI	X041076.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3689-CC3685	MSSEMI	L0683076.D	Benzoic Acid
SL3690-CC3685	MSSEMI	L0683103.D	Benzoic Acid
SL3692-CC3685	MSSEMI	L0683149.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1893-CC1884	MSSEMI	X041055.D	Benzoic Acid
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-BS	MSVOA	M82978.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VM3515-BS	MSVOA	M83013.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-CC3513	MSVOA	M83009.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran

38 Manual Integrations were found for FA26084

Summary of Hits

Job Number: FA26084
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26084-1	**TB-1 (071515)RW**					
No hits reported in this sample.						
FA26084-2	**MW-37A (071515)**					
Arsenic		0.0173	0.010		mg/l	SW846 6010C
Lead		0.0199	0.0050		mg/l	SW846 6010C
FA26084-2F	**MW-37A (071515)**					
No hits reported in this sample.						
FA26084-3	**MW-37B (071515)**					
Benzene		0.0555	0.0050		mg/l	SW846 8260B
Carbazole		0.0202	0.0051		mg/l	SW846 8270D
Acenaphthene		0.0393	0.0010		mg/l	SW846 8270D BY SIM
Fluorene		0.0081	0.0010		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0470	0.0040		mg/l	SW846 8270D BY SIM
Naphthalene		0.0033	0.0010		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0013	0.0010		mg/l	SW846 8270D BY SIM
Lead		0.0089	0.0050		mg/l	SW846 6010C
FA26084-3F	**MW-37B (071515)**					
No hits reported in this sample.						
FA26084-4	**MW-37C (071515)**					
Benzene		0.0050	0.0050		mg/l	SW846 8260B
Toluene		0.0284	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0171	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0610	0.015		mg/l	SW846 8260B
Carbazole		0.0507	0.0049		mg/l	SW846 8270D
Dibenzofuran		0.0375	0.0049		mg/l	SW846 8270D
Acenaphthene		0.0544	0.039		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0612	0.039		mg/l	SW846 8270D BY SIM
Naphthalene		1.32	0.039		mg/l	SW846 8270D BY SIM
FA26084-4F	**MW-37C (071515)**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA26084
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26084-5	**MW-16D (071515)**					
Benzene		0.0255	0.0050		mg/l	SW846 8260B
Toluene		0.0539	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0861	0.0050		mg/l	SW846 8260B
Xylene (total)		0.213	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0500	0.020		mg/l	SW846 8270D
2-Methylphenol [a]		0.0213	0.020		mg/l	SW846 8270D
Carbazole [a]		0.221	0.020		mg/l	SW846 8270D
Dibenzofuran [a]		0.212	0.020		mg/l	SW846 8270D
Acenaphthene		0.284	0.10		mg/l	SW846 8270D BY SIM
Fluorene		0.140	0.10		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.392	0.10		mg/l	SW846 8270D BY SIM
Naphthalene		4.80	0.41		mg/l	SW846 8270D BY SIM
Phenanthrene		0.101	0.10		mg/l	SW846 8270D BY SIM
FA26084-5F	**MW-16D (071515)**					

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071515)RW		
Lab Sample ID:	FA26084-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82993.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (071515)		
Lab Sample ID:	FA26084-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82994.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (071515)		
Lab Sample ID:	FA26084-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683079.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0051	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	mg/l	
	3&4-Methylphenol	ND	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	mg/l	
86-74-8	Carbazole	ND	0.0051	mg/l	
132-64-9	Dibenzofuran	ND	0.0051	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (071515)		
Lab Sample ID:	FA26084-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051852.D	1	07/22/15	MG	07/22/15	OP56925	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (071515)		
Lab Sample ID:	FA26084-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0173	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0199	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37A (071515)		
Lab Sample ID:	FA26084-2F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (071515)		
Lab Sample ID:	FA26084-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83015.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0555	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	90%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (071515)		
Lab Sample ID:	FA26084-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683080.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0051	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	mg/l	
	3&4-Methylphenol	ND	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	mg/l	
86-74-8	Carbazole	0.0202	0.0051	mg/l	
132-64-9	Dibenzofuran	ND	0.0051	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (071515)		
Lab Sample ID:	FA26084-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051853.D	1	07/22/15	MG	07/22/15	OP56925	SU2358
Run #2	U051870.D	4	07/23/15	ME	07/22/15	OP56925	SU2359

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2	990 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0393	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	0.0081	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	0.0470 [a]	0.0040	mg/l	
91-20-3	Naphthalene	0.0033	0.0010	mg/l	
85-01-8	Phenanthrene	0.0013	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [b]	73% [b]	33-118%
4165-60-0	Nitrobenzene-d5	60% [b]	65% [b]	42-108%
321-60-8	2-Fluorobiphenyl	59% [b]	65% [b]	40-106%
1718-51-0	Terphenyl-d14	61% [b]	69% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (071515)		
Lab Sample ID:	FA26084-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0089	0.0050	mg/l	1	07/17/15	07/20/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12535
(2) Prep QC Batch: MP29178

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (071515)		
Lab Sample ID:	FA26084-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (071515)		
Lab Sample ID:	FA26084-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82996.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0050	0.0050	mg/l	
108-88-3	Toluene	0.0284	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0171	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0610	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (071515)		
Lab Sample ID:	FA26084-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041100.D	1	07/24/15	MV	07/21/15	OP56920	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0507	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0375	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (071515)		
Lab Sample ID:	FA26084-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051911.D	40	07/24/15	ME	07/21/15	OP56921	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.039	mg/l	
83-32-9	Acenaphthene	0.0544	0.039	mg/l	
208-96-8	Acenaphthylene	ND	0.039	mg/l	
120-12-7	Anthracene	ND	0.039	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0078	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0078	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0078	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0078	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0078	mg/l	
218-01-9	Chrysene	ND	0.0078	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0078	mg/l	
206-44-0	Fluoranthene	ND	0.039	mg/l	
86-73-7	Fluorene	ND	0.039	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0078	mg/l	
91-57-6	2-Methylnaphthalene	0.0612	0.039	mg/l	
91-20-3	Naphthalene	1.32	0.039	mg/l	
85-01-8	Phenanthrene	ND	0.039	mg/l	
129-00-0	Pyrene	ND	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (071515)		
Lab Sample ID:	FA26084-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (071515)		
Lab Sample ID:	FA26084-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16D (071515)		
Lab Sample ID:	FA26084-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82997.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0255	0.0050	mg/l	
108-88-3	Toluene	0.0539	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0861	0.0050	mg/l	
1330-20-7	Xylene (total)	0.213	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16D (071515)		
Lab Sample ID:	FA26084-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L0683158.D	4	07/28/15	MV	07/22/15	OP56924	SL3692
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	0.0500	0.020	mg/l	
95-48-7	2-Methylphenol	0.0213	0.020	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.221	0.020	mg/l	
132-64-9	Dibenzofuran	0.212	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Dilution required due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16D (071515)		
Lab Sample ID:	FA26084-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051871.D	100	07/23/15	ME	07/22/15	OP56925	SU2359
Run #2	U051888.D	400	07/23/15	ME	07/22/15	OP56925	SU2359

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	980 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.10	mg/l	
83-32-9	Acenaphthene	0.284	0.10	mg/l	
208-96-8	Acenaphthylene	ND	0.10	mg/l	
120-12-7	Anthracene	ND	0.10	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	mg/l	
218-01-9	Chrysene	ND	0.020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	mg/l	
206-44-0	Fluoranthene	ND	0.10	mg/l	
86-73-7	Fluorene	0.140	0.10	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	mg/l	
91-57-6	2-Methylnaphthalene	0.392	0.10	mg/l	
91-20-3	Naphthalene	4.80 [a]	0.41	mg/l	
85-01-8	Phenanthrene	0.101	0.10	mg/l	
129-00-0	Pyrene	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16D (071515)		
Lab Sample ID:	FA26084-5	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16D (071515)		
Lab Sample ID:	FA26084-5F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29185

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26084 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941629
CSXT Project Name: IN CREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St, Ste. 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074-00002
PM: Bryant Geddes
Email: Bryant.Geddes@ARCADIS-US.com
Phone: 317-231-6550 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [X] Standard 14 Days
- [ ] Other _____

Deliverables:
- [X] Other Deliv: Data CD only, No Hard Copy
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: 8260 Suite, SVOCs, 8270 Semi (Site COCs only)	TOTAL METALS: As+Pb	DISSOLVED METALS: As+Pb (Last Fifteen+Phase)	COMMENTS	LAB USE
1	TB-1 (071515) RW	3	7-15-15	—	—	—	—	LIQ	X				
2	MW-37A (071515)	7	↓	1019	RW	N	GRAB	GW	X	X	X	X	
3	MW-37B (071515)	7		1047					X	X	X	X	
4	MW-37C (071515)	7		1113					X	X	X	X	
5	MW-16D (071515)	7	↓	1300	↓	↓	↓	↓	X	X	X	X	

Relinquished By:	Date Time: 7-15-15 / 1800	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 07-16-15 915	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks: 28	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal # #; LAB Log Number #

Comments & Special Analytical Requirements: – SEE TABLE 1 FOR SITE COCs

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26084: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26084 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE RWW 07-16-15 REVIEWER SIGNATURE/DATE EC 7-16-15

NF 10/14 receipt confirmation 102914.xls

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FA26084: Chain of Custody
Page 2 of 3

FA26084: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/30/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26085

Sampling Date: 07/15/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26085

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA26085-1	07/15/15	00:00	BC	07/16/15	AQ	Trip Blank Water	TB-2 (071515)BC
FA26085-2	07/15/15	16:50	BC	07/16/15	AQ	Ground Water	MW-55A (071515)
FA26085-3	07/15/15	14:01	BC	07/16/15	AQ	Ground Water	MW-19D (071515)
FA26085-4	07/15/15	15:38	BC	07/16/15	AQ	Ground Water	MW-22D (071515)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26085

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/30/2015 5:52:48 PM

3 Sample(s), 1 Trip Blank(s) were collected on 07/15/2015 and were received at Accutest SE on 07/16/2015 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA26085. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3514

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26082-2MS, FA26082-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Ethylbenzene are outside control limits for sample FA26082-2MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA26085-1 has surrogates outside control limits. Probable cause is due to matrix interference.

FA26085-1 for 4-Bromofluorobenzene: Outside control limits; however, sample is ND.

FA26085-3: Dilution required due to matrix interference (non-target compounds above calibration range).

Matrix: AQ **Batch ID:** VM3515

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2MS, FA26127-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Benzene, Ethylbenzene, Xylene (total) are outside control limits for sample FA26127-2MSD. Probable cause is due to sample non-homogeneity.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56924

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-5MS, FA26084-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56925

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-3MS, FA26084-3MSD were used as the QC samples indicated.
Matrix Spike /Matrix Spike Duplicate Recovery(s) for Acenaphthene are outside control limits. % RPD was within control limits in MS/MSD.

Matrix Spike Recovery(s) for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Sample(s) FA26085-3 has surrogates outside control limits. Probable cause is due to matrix interference.

OP56925-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56925

FA26085-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26085-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26085-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26085-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26085-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26085-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26085-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26085-3 for Terphenyl-d14: Outside control limits due to dilution.

FA26085-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26085-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26085-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26085-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29186

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2DUP, FA26027-2MS, FA26027-2MSD, FA26027-2PS, FA26027-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29186-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29186-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 30, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26082-2MS	MSVOA	M83002.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26082-2MSD	MSVOA	M83003.D	Carbon Tetrachloride, Methyl Acetate, Tetrahydrofuran
FA26085-3	MSVOA	M83000.D	4-Bromofluorobenzene
FA26085-3	MSSEMI	U051873.D	Benzo(k)fluoranthene
FA26085-4	MSSEMI	U051857.D	Indeno(1,2,3-cd)pyrene
FA26127-2MS	MSVOA	M83034.D	Carbon Tetrachloride, Tetrahydrofuran
FA26127-2MSD	MSVOA	M83035.D	Carbon Tetrachloride, Methyl Bromide, Tetrahydrofuran
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3689-CC3685	MSSEMI	L0683076.D	Benzoic Acid
SL3690-CC3685	MSSEMI	L0683103.D	Benzoic Acid
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-BS	MSVOA	M82978.D	Carbon Tetrachloride, Tetrahydrofuran
VM3514-CC3513	MSVOA	M82977.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VM3515-BS	MSVOA	M83013.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-CC3513	MSVOA	M83009.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran

28 Manual Integrations were found for FA26085

Summary of Hits

Job Number: FA26085
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26085-1	**TB-2 (071515)BC**					
No hits reported in this sample.						
FA26085-2	**MW-55A (071515)**					
Acenaphthene		0.00096	0.00094		mg/l	SW846 8270D BY SIM
Fluorene		0.0011	0.00094		mg/l	SW846 8270D BY SIM
Naphthalene		0.0038	0.00094		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0025	0.00094		mg/l	SW846 8270D BY SIM
FA26085-3	**MW-19D (071515)**					
Benzene [a]		0.0196	0.0050		mg/l	SW846 8260B
Toluene [a]		0.0406	0.0050		mg/l	SW846 8260B
Ethylbenzene [a]		0.0168	0.0050		mg/l	SW846 8260B
Xylene (total) [a]		0.0672	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.517	0.047		mg/l	SW846 8270D
2-Methylphenol		0.103	0.047		mg/l	SW846 8270D
3&4-Methylphenol		0.0880	0.047		mg/l	SW846 8270D
Carbazole		0.222	0.047		mg/l	SW846 8270D
Dibenzofuran		0.221	0.047		mg/l	SW846 8270D
Acenaphthene		0.259	0.094		mg/l	SW846 8270D BY SIM
Fluorene		0.135	0.094		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.431	0.094		mg/l	SW846 8270D BY SIM
Naphthalene		4.77	0.38		mg/l	SW846 8270D BY SIM
Phenanthrene		0.153	0.094		mg/l	SW846 8270D BY SIM
FA26085-4	**MW-22D (071515)**					
Carbazole		0.0056	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0087	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0107	0.00095		mg/l	SW846 8270D BY SIM
Anthracene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0018	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00089	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0013	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00035	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00044	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.0014	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0089	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0076	0.00095		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00042	0.00019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0065	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.107	0.0095		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA26085
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		0.0153	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0056	0.00095		mg/l	SW846 8270D BY SIM

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071515)BC		
Lab Sample ID:	FA26085-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M82998.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	122% [a]		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (071515)		
Lab Sample ID:	FA26085-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83016.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	91%		85-112%
460-00-4	4-Bromofluorobenzene	83%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (071515)
Lab Sample ID: FA26085-2 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683096.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	ND	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	59%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	56%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (071515)
Lab Sample ID: FA26085-2 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051872.D	1	07/23/15	ME	07/22/15	OP56925	SU2359
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	0.00096	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	0.0011	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	0.0038	0.00094	mg/l	
85-01-8	Phenanthrene	0.0025	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59% [a]		33-118%
4165-60-0	Nitrobenzene-d5	48% [a]		42-108%
321-60-8	2-Fluorobiphenyl	47% [a]		40-106%
1718-51-0	Terphenyl-d14	54% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55A (071515)		
Lab Sample ID:	FA26085-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19D (071515)		
Lab Sample ID:	FA26085-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M83000.D	1	07/22/15	RB	n/a	n/a	VM3514
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0196	0.0050	mg/l	
108-88-3	Toluene	0.0406	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0168	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0672	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	92%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-19D (071515)
Lab Sample ID: FA26085-3 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683085.D	10	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.047	mg/l	
105-67-9	2,4-Dimethylphenol	0.517	0.047	mg/l	
95-48-7	2-Methylphenol	0.103	0.047	mg/l	
	3&4-Methylphenol	0.0880	0.047	mg/l	
108-95-2	Phenol	ND	0.047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.047	mg/l	
86-74-8	Carbazole	0.222	0.047	mg/l	
132-64-9	Dibenzofuran	0.221	0.047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-19D (071515)
Lab Sample ID: FA26085-3 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051873.D	100	07/23/15	ME	07/22/15	OP56925	SU2359
Run #2	U051889.D	400	07/23/15	ME	07/22/15	OP56925	SU2359

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.094	mg/l	
83-32-9	Acenaphthene	0.259	0.094	mg/l	
208-96-8	Acenaphthylene	ND	0.094	mg/l	
120-12-7	Anthracene	ND	0.094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.094	mg/l	
86-73-7	Fluorene	0.135	0.094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.431	0.094	mg/l	
91-20-3	Naphthalene	4.77 [a]	0.38	mg/l	
85-01-8	Phenanthrene	0.153	0.094	mg/l	
129-00-0	Pyrene	ND	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19D (071515)		
Lab Sample ID:	FA26085-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-22D (071515)		
Lab Sample ID:	FA26085-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83017.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D (071515)		
Lab Sample ID:	FA26085-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683086.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0056	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0087	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-22D (071515)
Lab Sample ID: FA26085-4 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/16/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051857.D	1	07/22/15	MG	07/22/15	OP56925	SU2358
Run #2	U051874.D	10	07/23/15	ME	07/22/15	OP56925	SU2359

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0107	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	0.0016	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.0018	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00089	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0013	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00035	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00044	0.00019	mg/l	
218-01-9	Chrysene	0.0014	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0089	0.00095	mg/l	
86-73-7	Fluorene	0.0076	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00042	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0065	0.00095	mg/l	
91-20-3	Naphthalene	0.107 [a]	0.0095	mg/l	
85-01-8	Phenanthrene	0.0153	0.00095	mg/l	
129-00-0	Pyrene	0.0056	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [b]	63% [b]	33-118%
4165-60-0	Nitrobenzene-d5	59% [b]	63% [b]	42-108%
321-60-8	2-Fluorobiphenyl	58% [b]	62% [b]	40-106%
1718-51-0	Terphenyl-d14	61% [b]	66% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D (071515)		
Lab Sample ID:	FA26085-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/16/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 26085 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. #660
City, State, Zip: Indianapolis IN 46204
Project #: IN000072.0074.00002
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data Only No hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 4 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (Site COCs only)	Total Metals As & Pb	COMMENTS	LAB USE
1	TB-2(071515) BC	2	7/15/15	—	—	—	—	Liq	X				
2	MW-55A(071515)	6	7/15/15	1680	BC	N	Grab	GW	X	X	X		
3	MW-19D(071515)	6	7/15/15	1401	BC	N	Grab	GW	X	X	X		
4	MW-22D(071515)	6	7/15/15	1538	BC	N	Grab	GW	X	X	X		

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By:	7/15/15 1745	FX		See Table 1 for site COCs
Relinquished By: FX	Date Time:	Received By: J. Comer (ALSK)	Date Time: 7-16-15 09:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.2

5.1 5

FA26085: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26085 CLIENT: Arcadis PROJECT: IN Creosote

DATE/TIME RECEIVED: 07-16-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4650

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [x] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: RECEIVED LABEL BROKEN FOR SAMPLE #3 (8170)

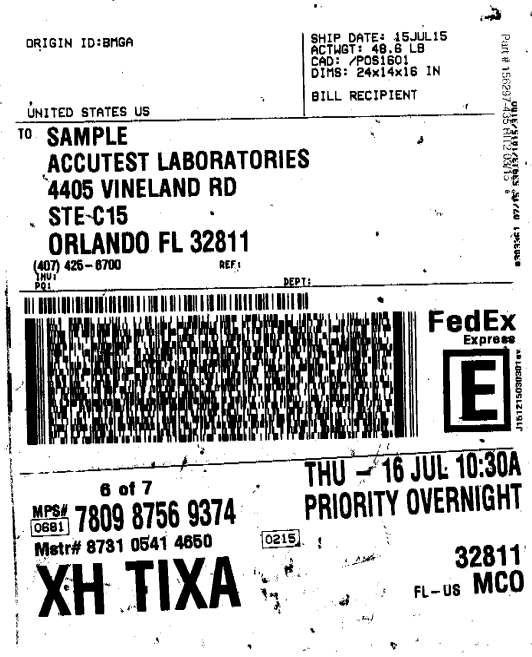
TECHNICIAN SIGNATURE/DATE: 07-16-15 REVIEWER SIGNATURE/DATE: JC 7-16-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26085: Chain of Custody
Page 2 of 3


ORIGIN ID:BMGA

SHIP DATE: 15JUL15
ACTWGT: 49.6 LB
CAD: /POS1601
DIMS: 24x14x16 IN

BILL RECIPIENT

UNITED STATES US

TO SAMPLE
ACCUTEST LABORATORIES
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 425-6700 REF:

INV:
PO: DEPT:

FedEx Express

6 of 7
MPS# 7809 8756 9374
0681
Mstr# 8731 0541 4650
0215

THU - 16 JUL 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US MCO

FA26085: Chain of Custody
Page 3 of 3

Southeast ACCUTEST LABORATORIES

08/03/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26121

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26121

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26121-1	07/16/15	00:00	RW	07/17/15	AQ	Trip Blank Water	TB-1 (071615)RW
FA26121-2	07/16/15	08:49	RW	07/17/15	AQ	Ground Water	MW-31C (071615)
FA26121-2F	07/16/15	08:49	RW	07/17/15	AQ	Groundwater Filtered	MW-31C (071615)
FA26121-3	07/16/15	09:14	RW	07/17/15	AQ	Ground Water	MW-31A (071615)
FA26121-3F	07/16/15	09:14	RW	07/17/15	AQ	Groundwater Filtered	MW-31A (071615)
FA26121-4	07/16/15	12:20	RW	07/17/15	AQ	Ground Water	MW-23D (071615)
FA26121-4F	07/16/15	12:20	RW	07/17/15	AQ	Groundwater Filtered	MW-23D (071615)
FA26121-5	07/16/15	12:56	RW	07/17/15	AQ	Ground Water	MW-54B (071615)
FA26121-5F	07/16/15	12:56	RW	07/17/15	AQ	Groundwater Filtered	MW-54B (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26121

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/3/2015 1:26:10 PM

4 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of FA26121. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5044

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26123-6MS, FA26123-6MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-2MS, FA26121-2MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-3MS, FA26121-3MSD were used as the QC samples indicated.

Sample(s) FA26121-5 has surrogates outside control limits.

OP56951-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26121-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26121-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26121-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26121-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26121-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26121-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26121-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26121-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26121-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26121-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26121-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26121-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26121-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26121-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26121-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

FA26121-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26121-5 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26121-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26121-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26121-5 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 3, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26121-5	MSSEMI	W088128.D	Anthracene
FA26123-6MS	MSVOA	J0970021.D	Carbon Tetrachloride
FA26123-6MSD	MSVOA	J0970022.D	Carbon Tetrachloride
OP56950-BS	MSSEMI	X041141.D	Caprolactam
SU2364-IC2364	MSSEMI	U052023.D	1,4-Naphthoquinone, 2,4,6-Tribromophenol, 2-Acetylaminofluorene, 3,3'-Dimethylbenzidine, 4-Nitroquinoline 1-Oxide, 5-Nitro-o-toluidine, A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, p-Phenylenediamine, Phenacetin, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052024.D	2-Acetylaminofluorene, 4-Nitroquinoline 1-Oxide, A,A-Dimethylphenethylamine, Aramite, Hexachlorophene, N-Nitrosomethylethylamine, p-Phenylenediamine
SU2364-IC2364	MSSEMI	U052025.D	Aramite, N-Nitrosomethylethylamine
SU2364-IC2364	MSSEMI	U052027.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052028.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
SU2364-ICC2364	MSSEMI	U052026.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICV2364	MSSEMI	U052029.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2365-CC2364	MSSEMI	U052032.D	1,4-Naphthoquinone, 1-Chloronaphthalene, A,A-Dimethylphenethylamine, N-Nitrosomethylethylamine, Safrole, sym-Trinitrobenzene
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon Tetrachloride
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5044-BS	MSVOA	J0970001.D	Carbon Tetrachloride
VJ5044-CC5039	MSVOA	J0970000.D	Carbon Tetrachloride, Ethyl Alcohol

30 Manual Integrations were found for FA26121

Summary of Hits

Job Number: FA26121
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26121-1	**TB-1 (071615)RW**					
No hits reported in this sample.						
FA26121-2	**MW-31C (071615)**					
Naphthalene		0.0020	0.00099		mg/l	SW846 8270D BY SIM
Arsenic		0.0158	0.010		mg/l	SW846 6010C
FA26121-2F	**MW-31C (071615)**					
Arsenic		0.0154	0.010		mg/l	SW846 6010C
FA26121-3	**MW-31A (071615)**					
Naphthalene		0.0011	0.0010		mg/l	SW846 8270D BY SIM
Lead		0.0157	0.0050		mg/l	SW846 6010C
FA26121-3F	**MW-31A (071615)**					
No hits reported in this sample.						
FA26121-4	**MW-23D (071615)**					
Benzene		0.0452	0.0050		mg/l	SW846 8260B
Toluene		0.0168	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0545	0.0050		mg/l	SW846 8260B
Xylene (total)		0.105	0.015		mg/l	SW846 8260B
Dibenzofuran		0.0090	0.0050		mg/l	SW846 8270D
Acenaphthene		0.0322	0.0010		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0012	0.0010		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0015	0.0010		mg/l	SW846 8270D BY SIM
Fluorene		0.0124	0.0010		mg/l	SW846 8270D BY SIM
Pyrene		0.0010	0.0010		mg/l	SW846 8270D BY SIM
FA26121-4F	**MW-23D (071615)**					
No hits reported in this sample.						
FA26121-5	**MW-54B (071615)**					
Benzene		0.0765	0.0050		mg/l	SW846 8260B
Toluene		0.0060	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0498	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0489	0.015		mg/l	SW846 8260B

Summary of Hits

Job Number: FA26121
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2,4-Dimethylphenol		0.0065	0.0050		mg/l	SW846 8270D
Carbazole		0.0658	0.0050		mg/l	SW846 8270D
Dibenzofuran		0.0491	0.0050		mg/l	SW846 8270D
Acenaphthene		0.152	0.040		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0014	0.0010		mg/l	SW846 8270D BY SIM
Anthracene		0.0025	0.0010		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0035	0.0010		mg/l	SW846 8270D BY SIM
Fluorene		0.0635	0.040		mg/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.140	0.040		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.143	0.040		mg/l	SW846 8270D BY SIM
Naphthalene		1.02	0.040		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0512	0.040		mg/l	SW846 8270D BY SIM
Pyrene		0.0020	0.0010		mg/l	SW846 8270D BY SIM
Arsenic		0.0180	0.010		mg/l	SW846 6010C

FA26121-5F **MW-54B (071615)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071615)RW		
Lab Sample ID:	FA26121-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970004.D	1	07/23/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (071615)		
Lab Sample ID:	FA26121-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970005.D	1	07/23/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (071615)		
Lab Sample ID:	FA26121-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041143.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (071615)		
Lab Sample ID:	FA26121-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088108.D	1	07/30/15	MG	07/23/15	OP56951	SW4040
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	ND	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00099	mg/l	
91-20-3	Naphthalene	0.0020	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (071615)		
Lab Sample ID:	FA26121-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0158	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (071615)		
Lab Sample ID:	FA26121-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0154	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (071615)		
Lab Sample ID:	FA26121-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970006.D	1	07/23/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (071615)		
Lab Sample ID:	FA26121-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041146.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	54%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (071615)		
Lab Sample ID:	FA26121-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088126.D	1	07/30/15	MG	07/23/15	OP56951	SW4040
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0011	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	73% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (071615)		
Lab Sample ID:	FA26121-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0157	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31A (071615)		
Lab Sample ID:	FA26121-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D (071615)		
Lab Sample ID:	FA26121-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970007.D	1	07/23/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0452	0.0050	mg/l	
108-88-3	Toluene	0.0168	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0545	0.0050	mg/l	
1330-20-7	Xylene (total)	0.105	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D (071615)		
Lab Sample ID:	FA26121-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041147.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	0.0090	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D (071615)		
Lab Sample ID:	FA26121-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088127.D	1	07/30/15	MG	07/23/15	OP56951	SW4040
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0322	0.0010	mg/l	
208-96-8	Acenaphthylene	0.0012	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	0.0015	0.0010	mg/l	
86-73-7	Fluorene	0.0124	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	0.0010	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	83% [a]		40-106%
1718-51-0	Terphenyl-d14	67% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D (071615)		
Lab Sample ID:	FA26121-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D (071615)		
Lab Sample ID:	FA26121-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (071615)		
Lab Sample ID:	FA26121-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970008.D	1	07/23/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0765	0.0050	mg/l	
108-88-3	Toluene	0.0060	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0498	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0489	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (071615)		
Lab Sample ID:	FA26121-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041148.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	0.0065	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	0.0658	0.0050	mg/l	
132-64-9	Dibenzofuran	0.0491	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (071615)		
Lab Sample ID:	FA26121-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088128.D	1	07/30/15	MG	07/23/15	OP56951	SW4040
Run #2	W088154.D	40	07/31/15	MG	07/23/15	OP56951	SW4041

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.152 [a]	0.040	mg/l	
208-96-8	Acenaphthylene	0.0014	0.0010	mg/l	
120-12-7	Anthracene	0.0025	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	0.0035	0.0010	mg/l	
86-73-7	Fluorene	0.0635 [a]	0.040	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
90-12-0	1-Methylnaphthalene	0.140 [a]	0.040	mg/l	
91-57-6	2-Methylnaphthalene	0.143 [a]	0.040	mg/l	
91-20-3	Naphthalene	1.02 [a]	0.040	mg/l	
85-01-8	Phenanthrene	0.0512 [a]	0.040	mg/l	
129-00-0	Pyrene	0.0020	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	80% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	77% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	71% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (071615)		
Lab Sample ID:	FA26121-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0180	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (071615)		
Lab Sample ID:	FA26121-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26121 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FAS-ESP
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: ARCADIS	Project #: IN000072.0074.00002
CSXT Project Name: IN CREOSOTE	Proj. City: BLOOMINGTON	Address: 152 E. WASHINGTON ST., SITE 600	PM: BRYANT GRIGGS
CSXT Contact: DAN DYER	LWON: ENV53216	City, State, Zip: INDIANAPOLIS, IN 46204	Email: BRYANT.GRIGGS@ARCADIS-US.COM
			Phone: 317-231-6505 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☒ Other Deliv: Data QA only, NO MRS Copy
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: (STEX 8260; PAHs 8270 SIM (SIDE COC ONLY); TOTAL CHROMIUM 6010; DISS. CHROMIUM: A+1+3 (LAB FILTERED + FIELD))	COMMENTS	LAB USE
1	TB-1 (071615) RW	2	7-16-15	—	—	—	—	LIQ	X		
2	MW-31C (071615)	7	↓	0849	RW	N	GRAB	GW	X X X X		
3	MW-31A (071615)	7		0914	↓	↓	↓	↓	X X X X		
4	MW-23D (071615)	7		1220					X X X X		
5	MW-54B (071615)	7	↓	1256	↓	↓	↓	↓	X X X X		

Relinquished By: RW	Date Time: 7-16-15 / 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - SEE TABLE 4 FOR SITE COCs	
Relinquished By: FX	Date Time:	Received By: J-Cooler (ALS)	Date Time: 7-17-15 09:15		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.1

5.1 5

FA26121: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26121 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

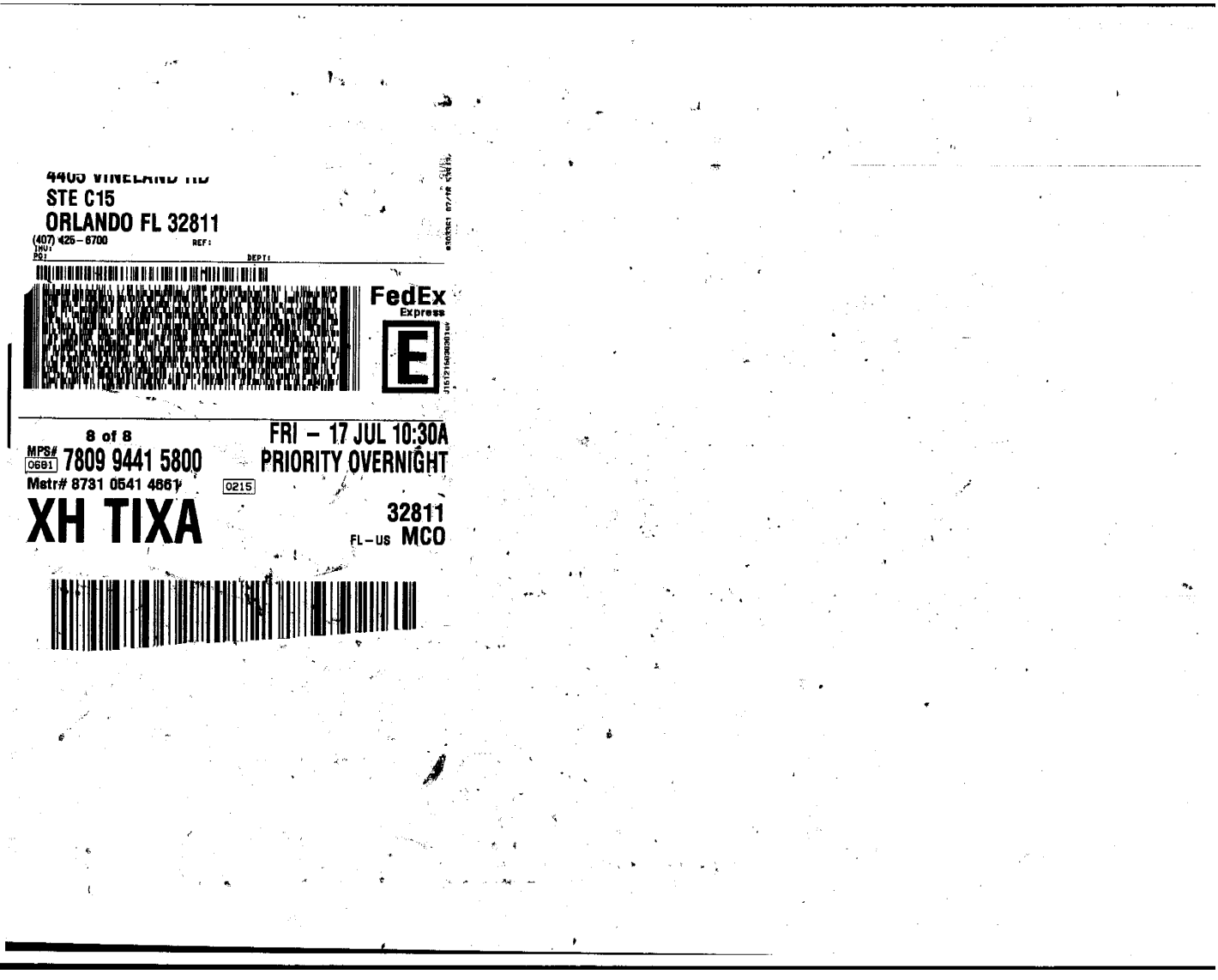
TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07/17/15

NF 10/14

receipt confirmation 102914.xls

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FA26121: Chain of Custody
Page 2 of 3



FA26121: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

08/03/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26122

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **39**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: FA26122

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26122-1	07/16/15	00:00	BC	07/17/15	AQ	Trip Blank Water	TB-2 (071615)BC
FA26122-2	07/16/15	08:45	BC	07/17/15	AQ	Ground Water	MW-9 (071615)
FA26122-2F	07/16/15	08:45	BC	07/17/15	AQ	Groundwater Filtered	MW-9 (071615)
FA26122-3	07/16/15	09:10	BC	07/17/15	AQ	Ground Water	MW-10 (071615)
FA26122-3F	07/16/15	09:10	BC	07/17/15	AQ	Groundwater Filtered	MW-10 (071615)
FA26122-4	07/16/15	09:45	BC	07/17/15	AQ	Ground Water	MW-P5 (071615)
FA26122-4F	07/16/15	09:45	BC	07/17/15	AQ	Groundwater Filtered	MW-P5 (071615)
FA26122-5	07/16/15	10:15	BC	07/17/15	AQ	Ground Water	MW-P4 (071615)
FA26122-5F	07/16/15	10:15	BC	07/17/15	AQ	Groundwater Filtered	MW-P4 (071615)
FA26122-6	07/16/15	11:00	BC	07/17/15	AQ	Ground Water	MW-P2 (071615)
FA26122-6F	07/16/15	11:00	BC	07/17/15	AQ	Groundwater Filtered	MW-P2 (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26122

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/3/2015 1:32:04 PM

5 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA26122. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5044

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26123-6MS, FA26123-6MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-2MS, FA26121-2MSD were used as the QC samples indicated.
Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-3MS, FA26121-3MSD were used as the QC samples indicated.

OP56951-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26122-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26122-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26122-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26122-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26122-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26122-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26122-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26122-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26122-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26122-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26122-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26122-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26122-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26122-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26122-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26122-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

FA26122-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26122-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26122-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26122-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: August 3, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26122-2	MSSEMI	W088155.D	Benzo(k)fluoranthene
FA26122-5	MSSEMI	W088158.D	Benzo(k)fluoranthene
FA26123-6MS	MSVOA	J0970021.D	Carbon Tetrachloride
FA26123-6MSD	MSVOA	J0970022.D	Carbon Tetrachloride
OP56950-BS	MSSEMI	X041141.D	Caprolactam
SU2364-IC2364	MSSEMI	U052023.D	1,4-Naphthoquinone, 2,4,6-Tribromophenol, 2-Acetylaminofluorene, 3,3'-Dimethylbenzidine, 4-Nitroquinoline 1-Oxide, 5-Nitro-o-toluidine, A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, p-Phenylenediamine, Phenacetin, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052024.D	2-Acetylaminofluorene, 4-Nitroquinoline 1-Oxide, A,A-Dimethylphenethylamine, Aramite, Hexachlorophene, N-Nitrosomethylethylamine, p-Phenylenediamine
SU2364-IC2364	MSSEMI	U052025.D	Aramite, N-Nitrosomethylethylamine
SU2364-IC2364	MSSEMI	U052027.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052028.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICC2364	MSSEMI	U052026.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICV2364	MSSEMI	U052029.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2365-CC2364	MSSEMI	U052032.D	1,4-Naphthoquinone, 1-Chloronaphthalene, A,A-Dimethylphenethylamine, N-Nitrosomethylethylamine, Safrole, sym-Trinitrobenzene
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon Tetrachloride
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5044-BS	MSVOA	J0970001.D	Carbon Tetrachloride
VJ5044-CC5039	MSVOA	J0970000.D	Carbon Tetrachloride, Ethyl Alcohol

31 Manual Integrations were found for FA26122

Summary of Hits

Job Number: FA26122
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26122-1	**TB-2 (071615)BC**					
No hits reported in this sample.						
FA26122-2	**MW-9 (071615)**					
Lead		0.0052	0.0050		mg/l	SW846 6010C
FA26122-2F	**MW-9 (071615)**					
No hits reported in this sample.						
FA26122-3	**MW-10 (071615)**					
Lead		0.0061	0.0050		mg/l	SW846 6010C
FA26122-3F	**MW-10 (071615)**					
No hits reported in this sample.						
FA26122-4	**MW-P5 (071615)**					
No hits reported in this sample.						
FA26122-4F	**MW-P5 (071615)**					
No hits reported in this sample.						
FA26122-5	**MW-P4 (071615)**					
Acenaphthene		0.0025	0.00096		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00021	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
Arsenic		0.0172	0.010		mg/l	SW846 6010C
Lead		0.0384	0.0050		mg/l	SW846 6010C
FA26122-5F	**MW-P4 (071615)**					
No hits reported in this sample.						
FA26122-6	**MW-P2 (071615)**					
Arsenic		0.0484	0.010		mg/l	SW846 6010C
Lead		0.0209	0.0050		mg/l	SW846 6010C

Summary of Hits

Job Number: FA26122
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA26122-6F **MW-P2 (071615)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071615)BC		
Lab Sample ID:	FA26122-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970009.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (071615)		
Lab Sample ID:	FA26122-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970010.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (071615)		
Lab Sample ID:	FA26122-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041149.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	66%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (071615)		
Lab Sample ID:	FA26122-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088155.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	90% [a]		40-106%
1718-51-0	Terphenyl-d14	80% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (071615)		
Lab Sample ID:	FA26122-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0052	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-9 (071615)		
Lab Sample ID:	FA26122-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10 (071615)		
Lab Sample ID:	FA26122-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970011.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 (071615)		
Lab Sample ID:	FA26122-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041150.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-10 (071615)
Lab Sample ID: FA26122-3 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088156.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	93% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 (071615)		
Lab Sample ID:	FA26122-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0061	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10 (071615)		
Lab Sample ID:	FA26122-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P5 (071615)		
Lab Sample ID:	FA26122-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970012.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (071615)		
Lab Sample ID:	FA26122-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041151.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	26%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (071615)		
Lab Sample ID:	FA26122-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088157.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	90% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (071615)		
Lab Sample ID:	FA26122-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P5 (071615)		
Lab Sample ID:	FA26122-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P4 (071615)		
Lab Sample ID:	FA26122-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970013.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (071615)		
Lab Sample ID:	FA26122-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041152.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	70%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (071615)		
Lab Sample ID:	FA26122-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088158.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0025	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00021	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00019	0.00019	mg/l	
218-01-9	Chrysene	0.00019	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	92% [a]		40-106%
1718-51-0	Terphenyl-d14	82% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P4 (071615)		
Lab Sample ID:	FA26122-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0172	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0384	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P4 (071615)		
Lab Sample ID:	FA26122-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P2 (071615)		
Lab Sample ID:	FA26122-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970014.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (071615)		
Lab Sample ID:	FA26122-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041153.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	82%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (071615)		
Lab Sample ID:	FA26122-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088159.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	63% [a]		42-108%
321-60-8	2-Fluorobiphenyl	87% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (071615)		
Lab Sample ID:	FA26122-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0484	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0209	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P2 (071615)		
Lab Sample ID:	FA26122-6F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26122 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: GW53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St #600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072, 0074, 0002
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6800 Fax: 317-231-6814

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes:
0 = No Preservative
1 = Hydrochloric Acid
2 = Nitric Acid
3 = Sulfuric Acid
4 = Sodium Thiosulfate
5 = Sodium Hydroxide
6 = Other ____

Matrix Codes:
GW = Groundwater
WW = Waste Water
SW = Surface Water
SO = Soil
SL = Sludge
OI = Oil
SOL = Other Solid
LIQ = Liquid

Note ➡ Pres. Code: 1 0 7 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (site COCs only)	Total Metals As & Pb	Dissolved Metals As & Pb Grab Filtr. and preserved	COMMENTS	LAB USE
1	TB-2(071615)-BC	2	7/16/15	—	—	—	—	liq	X					
2	MW-9(071615)	7	7/16/15	0845	BC	N	Grab	GW	X	X	X	X		
3	MW-10(071615)	7	7/16/15	0910	BC	N	Grab	GW	X	X	X	X		
4	MW-P5(071615)	7	7/16/15	0948	BC	N	Grab	GW	X	X	X	X		
5	MW-P4(071615)	7	7/16/15	1015	BC	N	Grab	GW	X	X	X	X		
6	MW-P2 (071615)	7	7/16/15	1100	BC	N	Grab	GW	X	X	X	X		

Relinquished By:	Date Time: 7/16/15 1655	Received By: FX	Date Time:
Relinquished By: FX	Date Time:	Received By: J. Connor (ARM)	Date Time: 7-17-15 09:15
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements: See Table 1 Per site COCs

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES
Rev. 5/21/02
3.0
INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA26122: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26122 CLIENT: ARCADIS PROJECT: 94158 29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 5

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

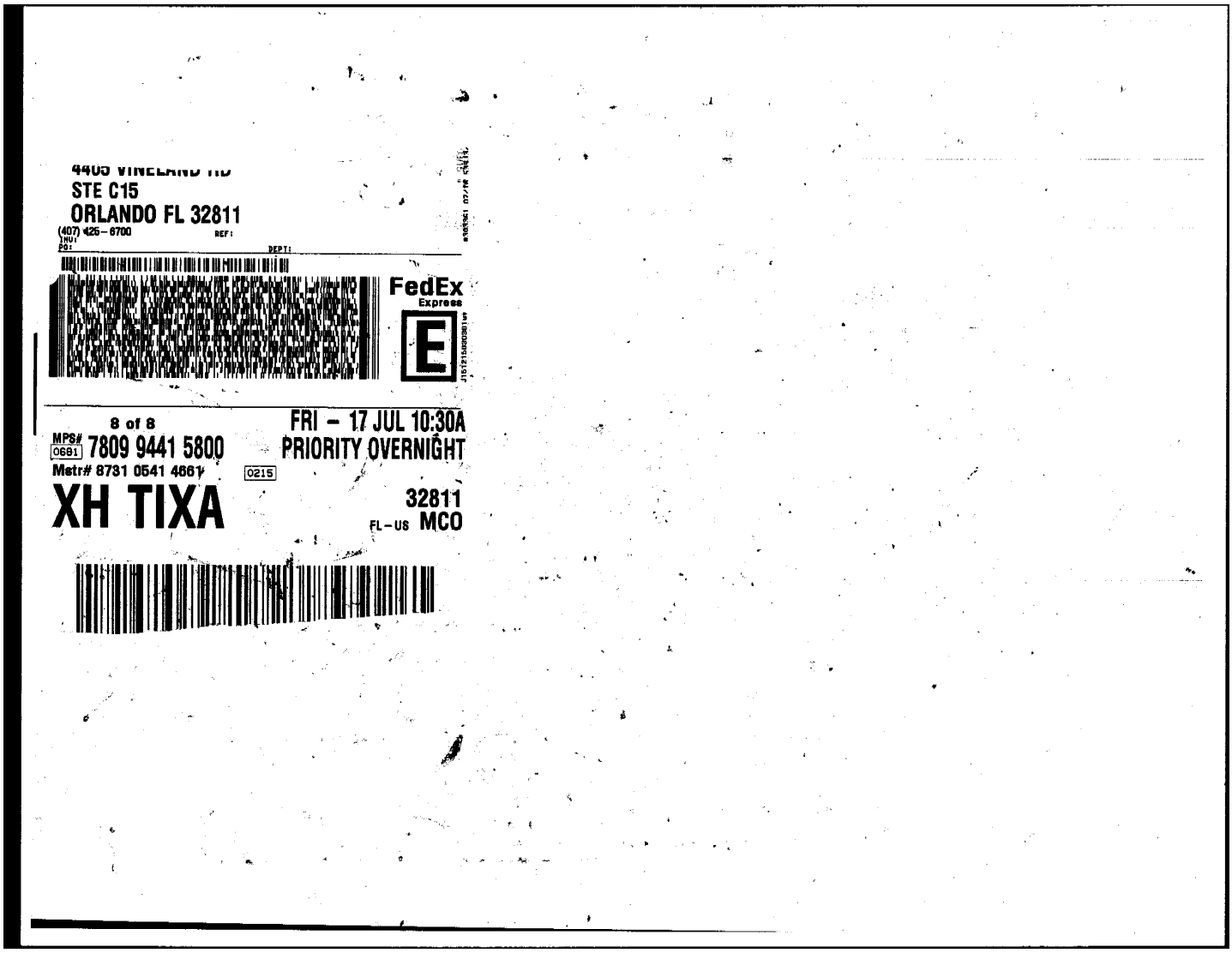
NF 10/14

receipt confirmation 102914.xls

5.1

5

FA26122: Chain of Custody
Page 2 of 3



FA26122: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

08/04/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26123

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **39**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26123

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA26123-1	07/16/15	00:00	BC	07/17/15	AQ	Trip Blank Water	TB-1 (071615)BC
FA26123-2	07/16/15	11:40	BC	07/17/15	AQ	Ground Water	OW-3 (071615)
FA26123-2F	07/16/15	11:40	BC	07/17/15	AQ	Groundwater Filtered	OW-3 (071615)
FA26123-3	07/16/15	13:00	BC	07/17/15	AQ	Ground Water	OW-2 (071615)
FA26123-3F	07/16/15	13:00	BC	07/17/15	AQ	Groundwater Filtered	OW-2 (071615)
FA26123-4	07/16/15	13:30	BC	07/17/15	AQ	Ground Water	OW-1 (071615)
FA26123-4F	07/16/15	13:30	BC	07/17/15	AQ	Groundwater Filtered	OW-1 (071615)
FA26123-5	07/16/15	14:15	BC	07/17/15	AQ	Ground Water	MW-12S (071615)
FA26123-5F	07/16/15	14:15	BC	07/17/15	AQ	Groundwater Filtered	MW-12S (071615)
FA26123-6	07/16/15	14:45	BC	07/17/15	AQ	Ground Water	MW-16S (071615)
FA26123-6F	07/16/15	14:45	BC	07/17/15	AQ	Groundwater Filtered	MW-16S (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26123

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/4/2015 3:57:20 PM

5 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA26123. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5044

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26123-6MS, FA26123-6MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-2MS, FA26121-2MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-3MS, FA26121-3MSD were used as the QC samples indicated.

Sample(s) FA26123-6 has surrogates outside control limits.

OP56951-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26123-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26123-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26123-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26123-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26123-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26123-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26123-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26123-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26123-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26123-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56951

FA26123-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26123-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26123-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26123-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26123-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26123-6 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26123-6 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26123-6 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26123-6 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 4, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26123-2	MSSEMI	W088160.D	Dibenzo(a,h)anthracene
FA26123-4	MSSEMI	W088162.D	Benzo(k)fluoranthene
FA26123-6	MSSEMI	W088165.D	Dibenzo(a,h)anthracene
FA26123-6MS	MSVOA	J0970021.D	Carbon Tetrachloride
FA26123-6MSD	MSVOA	J0970022.D	Carbon Tetrachloride
OP56950-BS	MSSEMI	X041141.D	Caprolactam
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3693-CC3685	MSSEMI	L0683177.D	Benzoic Acid
ST858-IC858	MSSEMI	T019288.D	Pentachlorophenol
SU2364-IC2364	MSSEMI	U052023.D	1,4-Naphthoquinone, 2,4,6-Tribromophenol, 2-Acetylaminofluorene, 3,3'-Dimethylbenzidine, 4-Nitroquinoline 1-Oxide, 5-Nitro-o-toluidine, A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, p-Phenylenediamine, Phenacetin,
SU2364-IC2364	MSSEMI	U052024.D	2-Acetylaminofluorene, 4-Nitroquinoline 1-Oxide, A,A-Dimethylphenethylamine, Aramite, Hexachlorophene, N-Nitrosomethylethylamine, p-Phenylenediamine
SU2364-IC2364	MSSEMI	U052025.D	Aramite, N-Nitrosomethylethylamine
SU2364-IC2364	MSSEMI	U052027.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052028.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICC2364	MSSEMI	U052026.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICV2364	MSSEMI	U052029.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2365-CC2364	MSSEMI	U052032.D	1,4-Naphthoquinone, 1-Chloronaphthalene, A,A-Dimethylphenethylamine, N-Nitrosomethylethylamine, Safrole,
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5044-BS	MSVOA	J0970001.D	Carbon Tetrachloride
VJ5044-CC5039	MSVOA	J0970000.D	Carbon Tetrachloride, Ethyl Alcohol

42 Manual Integrations were found for FA26123

Summary of Hits

Job Number: FA26123
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26123-1	**TB-1 (071615)BC**					
No hits reported in this sample.						
FA26123-2	**OW-3 (071615)**					
Benzo(a)anthracene		0.00035	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00040	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00043	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00024	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00035	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00039	0.00019		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00032	0.00019		mg/l	SW846 8270D BY SIM
Arsenic		0.0646	0.010		mg/l	SW846 6010C
Lead		0.0245	0.0050		mg/l	SW846 6010C
FA26123-2F	**OW-3 (071615)**					
No hits reported in this sample.						
FA26123-3	**OW-2 (071615)**					
Lead		0.0074	0.0050		mg/l	SW846 6010C
FA26123-3F	**OW-2 (071615)**					
No hits reported in this sample.						
FA26123-4	**OW-1 (071615)**					
Carbazole		0.0456	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.122	0.019		mg/l	SW846 8270D
Acenaphthene		0.212	0.0096		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0012	0.00096		mg/l	SW846 8270D BY SIM
Anthracene		0.0028	0.00096		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0077	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.101	0.0096		mg/l	SW846 8270D BY SIM
1-Methylnaphthalene		0.0973	0.0096		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0018	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0081	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0592	0.0096		mg/l	SW846 8270D BY SIM
Pyrene		0.0039	0.00096		mg/l	SW846 8270D BY SIM
Arsenic		0.0279	0.010		mg/l	SW846 6010C

Summary of Hits

Job Number: FA26123
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26123-4F	**OW-1 (071615)**					
No hits reported in this sample.						
FA26123-5	**MW-12S (071615)**					
Arsenic		0.0147	0.010		mg/l	SW846 6010C
Lead		0.0188	0.0050		mg/l	SW846 6010C
FA26123-5F	**MW-12S (071615)**					
No hits reported in this sample.						
FA26123-6	**MW-16S (071615)**					
Carbazole		0.0579	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0496	0.0048		mg/l	SW846 8270D
Acenaphthene		0.183	0.019		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0022	0.00096		mg/l	SW846 8270D BY SIM
Anthracene		0.0141	0.00096		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0031	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.0014	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0013	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00045	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00093	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.0031	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0297	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.111	0.019		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00070	0.00019		mg/l	SW846 8270D BY SIM
Naphthalene		0.0124	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0068	0.00096		mg/l	SW846 8270D BY SIM
Pyrene		0.0153	0.00096		mg/l	SW846 8270D BY SIM
Arsenic		0.0175	0.010		mg/l	SW846 6010C
Lead		0.0099	0.0050		mg/l	SW846 6010C
FA26123-6F	**MW-16S (071615)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071615)BC		
Lab Sample ID:	FA26123-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970015.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (071615)		
Lab Sample ID:	FA26123-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970016.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (071615)		
Lab Sample ID:	FA26123-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041154.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (071615)		
Lab Sample ID:	FA26123-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088160.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	0.00035	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00040	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00043	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00024	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00035	0.00019	mg/l	
218-01-9	Chrysene	0.00039	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00032	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	77% [a]		40-106%
1718-51-0	Terphenyl-d14	78% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (071615)		
Lab Sample ID:	FA26123-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0646	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0245	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-3 (071615)		
Lab Sample ID:	FA26123-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-2 (071615)		
Lab Sample ID:	FA26123-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970017.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (071615)		
Lab Sample ID:	FA26123-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041155.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (071615)		
Lab Sample ID:	FA26123-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088161.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	83% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	102% [a]		40-106%
1718-51-0	Terphenyl-d14	82% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (071615)		
Lab Sample ID:	FA26123-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0074	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-2 (071615)		
Lab Sample ID:	FA26123-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-1 (071615)		
Lab Sample ID:	FA26123-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970018.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1 (071615)		
Lab Sample ID:	FA26123-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041156.D	1	07/27/15	MV	07/23/15	OP56950	SX1896
Run #2	L0683190.D	4	07/29/15	MV	07/23/15	OP56950	SL3693

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0456	0.0048	mg/l	
132-64-9	Dibenzofuran	0.122 [a]	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%	34%	14-67%
4165-62-2	Phenol-d5	22%	26%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	61%	33-118%
4165-60-0	Nitrobenzene-d5	61%	71%	42-108%
321-60-8	2-Fluorobiphenyl	64%	69%	40-106%
1718-51-0	Terphenyl-d14	76%	71%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-1 (071615)
Lab Sample ID: FA26123-4 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088162.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2	W088163.D	10	07/31/15	MG	07/23/15	OP56951	SW4041

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.212 [a]	0.0096	mg/l	
208-96-8	Acenaphthylene	0.0012	0.00096	mg/l	
120-12-7	Anthracene	0.0028	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0077	0.00096	mg/l	
86-73-7	Fluorene	0.101 [a]	0.0096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
90-12-0	1-Methylnaphthalene	0.0973 [a]	0.0096	mg/l	
91-57-6	2-Methylnaphthalene	0.0018	0.00096	mg/l	
91-20-3	Naphthalene	0.0081	0.00096	mg/l	
85-01-8	Phenanthrene	0.0592 [a]	0.0096	mg/l	
129-00-0	Pyrene	0.0039	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [b]	74% [b]	33-118%
4165-60-0	Nitrobenzene-d5	69% [b]	80% [b]	42-108%
321-60-8	2-Fluorobiphenyl	76% [b]	76% [b]	40-106%
1718-51-0	Terphenyl-d14	67% [b]	73% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1 (071615)		
Lab Sample ID:	FA26123-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0279	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-1 (071615)		
Lab Sample ID:	FA26123-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12S (071615)		
Lab Sample ID:	FA26123-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970019.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12S (071615)		
Lab Sample ID:	FA26123-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041157.D	1	07/28/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	76%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12S (071615)		
Lab Sample ID:	FA26123-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088164.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	77% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12S (071615)		
Lab Sample ID:	FA26123-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0147	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0188	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12S (071615)		
Lab Sample ID:	FA26123-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16S (071615)		
Lab Sample ID:	FA26123-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970020.D	1	07/24/15	DP	n/a	n/a	VJ5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S (071615)		
Lab Sample ID:	FA26123-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041158.D	1	07/28/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0579	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0496	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S (071615)		
Lab Sample ID:	FA26123-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088165.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2	T019373.D	20	08/03/15	MG	07/23/15	OP56951	ST862

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.183 [a]	0.019	mg/l	
208-96-8	Acenaphthylene	0.0022	0.00096	mg/l	
120-12-7	Anthracene	0.0141	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	0.0031	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.0014	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0013	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00045	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00093	0.00019	mg/l	
218-01-9	Chrysene	0.0031	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0297	0.00096	mg/l	
86-73-7	Fluorene	0.111 [a]	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00070	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0124	0.00096	mg/l	
85-01-8	Phenanthrene	0.0068	0.00096	mg/l	
129-00-0	Pyrene	0.0153	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [c]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	58% [c]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	75% [c]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	60% [c]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.
(c) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S (071615)		
Lab Sample ID:	FA26123-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0175	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0099	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16S (071615)		
Lab Sample ID:	FA26123-6F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26123 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION			
Accutest	Phone:	407-425-6700	
4405 Vineland Rd., Suite C-15	Fax:	407-425-0707	
Orlando, FL 32811			

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENVS3216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St #600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074.00002
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6501

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [x] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data CD only, no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0 — Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOC 8270 SIM (Site COCs Only)	Total metals As & Pb	Dissolved metals: As & Pb Lab filter and preserve	COMMENTS	LAB USE
1	TB-1(071615)-BC	2	7/16/15	—	—	—	—	liq	X					
2	OW-3(071615)	7	7/16/15	1140	BC	N	Grab	GW	X	X	X	X		
3	OW-2(071615)	7	7/16/15	1300	BC	N	Grab	GW	X	X	X	X		
4	OW-1(071615)	7	7/16/15	1330	BC	N	Grab	GW	X	X	X	X		
5	MW-12S(071615)	7	7/16/15	1415	BC	N	Grab	GW	X	X	X	X		
6	MW-16S(071615)	7	7/16/15	1445	BC	N	Grab	GW	X	X	X	X		

	Relinquished By:	Date Time:	Received By:	Date Time:
1		7/16/15 1645	FX	
2	FX		Courier (ARSR)	7-17-15 09:15
3				
	Received By Laboratory:	Date Time:	Lab Remarks:	

Comments & Special Analytical Requirements: See table 1 for site COCs

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # | LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.2 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

FA26123: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26123 CLIENT: AECOM PROJECT: 94158 29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 5

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26123: Chain of Custody

Page 2 of 3



FA26123: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

08/03/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26124

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **40**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26124

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26124-1	07/16/15	00:00	RC	07/17/15	AQ	Trip Blank Water	TB-2 (071615)RC
FA26124-2	07/16/15	16:42	RC	07/17/15	AQ	Ground Water	MW-28B (071615)
FA26124-2F	07/16/15	16:42	RC	07/17/15	AQ	Groundwater Filtered	MW-28B (071615)
FA26124-3	07/16/15	15:45	RC	07/17/15	AQ	Ground Water	MW-28A (071615)
FA26124-3F	07/16/15	15:45	RC	07/17/15	AQ	Groundwater Filtered	MW-28A (071615)
FA26124-4	07/16/15	14:50	RC	07/17/15	AQ	Ground Water	MW-28C (071615)
FA26124-4F	07/16/15	14:50	RC	07/17/15	AQ	Groundwater Filtered	MW-28C (071615)
FA26124-5	07/16/15	00:00	RC	07/17/15	AQ	Ground Water	DUP-1 (071615)RC
FA26124-5F	07/16/15	00:00	RC	07/17/15	AQ	Groundwater Filtered	DUP-1 (071615)RC
FA26124-6	07/16/15	12:56	RC	07/17/15	AQ	Ground Water	MW-32C (071615)
FA26124-6F	07/16/15	12:56	RC	07/17/15	AQ	Groundwater Filtered	MW-32C (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26124

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/3/2015 1:33:09 PM

5 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of FA26124. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5049

All samples were analyzed within the recommended method holding time.

Sample(s) FA26363-1MS, FA26363-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** VN3884

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26124-2MS, FA26124-2MSD were used as the QC samples indicated.

FA26124-2: Confirmation run.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56942

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-2MS, FA26125-2MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP56950

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-2MS, FA26121-2MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-4MS, FA26125-4MSD were used as the QC samples indicated.

OP56943-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26124-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

FA26124-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26124-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP56951

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26121-3MS, FA26121-3MSD were used as the QC samples indicated.

OP56951-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56951-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26124-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26124-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26124-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26124-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 3, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26124-2	MSSEMI	W088166.D	Anthracene
FA26124-2MS	MSVOA	N0087082.D	Trichlorofluoromethane
FA26124-2MSD	MSVOA	N0087083.D	Tetrahydrofuran, Trichlorofluoromethane
FA26124-5	MSVOA	J0970128.D	Ethylbenzene
FA26363-1MS	MSVOA	J0970140.D	Carbon Tetrachloride
FA26363-1MSD	MSVOA	J0970141.D	Carbon Tetrachloride
OP56950-BS	MSSEMI	X041141.D	Caprolactam
SU2364-IC2364	MSSEMI	U052023.D	1,4-Naphthoquinone, 2,4,6-Tribromophenol, 2-Acetylaminofluorene, 3,3'-Dimethylbenzidine, 4-Nitroquinoline 1-Oxide, 5-Nitro-o-toluidine, A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, p-Phenylenediamine, Phenacetin, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052024.D	2-Acetylaminofluorene, 4-Nitroquinoline 1-Oxide, A,A-Dimethylphenethylamine, Aramite, Hexachlorophene, N-Nitrosomethylethylamine, p-Phenylenediamine
SU2364-IC2364	MSSEMI	U052025.D	Aramite, N-Nitrosomethylethylamine
SU2364-IC2364	MSSEMI	U052027.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-IC2364	MSSEMI	U052028.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICC2364	MSSEMI	U052026.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2364-ICV2364	MSSEMI	U052029.D	A,A-Dimethylphenethylamine, Aramite, N-Nitrosomethylethylamine, sym-Trinitrobenzene
SU2365-CC2364	MSSEMI	U052032.D	1,4-Naphthoquinone, 1-Chloronaphthalene, A,A-Dimethylphenethylamine, N-Nitrosomethylethylamine, Safrole, sym-Trinitrobenzene
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon Tetrachloride
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5049-BS	MSVOA	J0970117.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5049-CC5039	MSVOA	J0970116.D	Carbon Tetrachloride, Ethyl Alcohol
VN3882-IC3882	MSVOA	N0087026.D	1,4-Dichlorobenzene, Carbon Disulfide, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087027.D	1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087029.D	Carbon Tetrachloride, Tert-Amyl Alcohol, Tetrahydrofuran, Trichlorofluoromethane
VN3882-IC3882	MSVOA	N0087031.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-IC3882	MSVOA	N0087032.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICC3882	MSVOA	N0087030.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICV3882	MSVOA	N0087034.D	Tetrahydrofuran, Trichlorofluoromethane
VN3884-BS	MSVOA	N0087062.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3884-CC3882	MSVOA	N0087061.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

50 Manual Integrations were found for FA26124

Summary of Hits

Job Number: FA26124
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26124-1	**TB-2 (071615)RC**					
No hits reported in this sample.						
FA26124-2	**MW-28B (071615)**					
Benzene		0.0428	0.0050		mg/l	SW846 8260B
Carbazole		0.0251	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0500	0.0038		mg/l	SW846 8270D BY SIM
Fluorene		0.0131	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0012	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0063	0.00096		mg/l	SW846 8270D BY SIM
FA26124-2F	**MW-28B (071615)**					
No hits reported in this sample.						
FA26124-3	**MW-28A (071615)**					
No hits reported in this sample.						
FA26124-3F	**MW-28A (071615)**					
No hits reported in this sample.						
FA26124-4	**MW-28C (071615)**					
No hits reported in this sample.						
FA26124-4F	**MW-28C (071615)**					
No hits reported in this sample.						
FA26124-5	**DUP-1 (071615)RC**					
Benzene		0.0454	0.0050		mg/l	SW846 8260B
Carbazole		0.0188	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0344	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0086	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0048	0.00095		mg/l	SW846 8270D BY SIM
FA26124-5F	**DUP-1 (071615)RC**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA26124
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA26124-6 **MW-32C (071615)**

No hits reported in this sample.

FA26124-6F **MW-32C (071615)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071615)RC		
Lab Sample ID:	FA26124-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087069.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (071615)		
Lab Sample ID:	FA26124-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087070.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2 [a]	N0087081.D	10	07/23/15	RB	n/a	n/a	VN3884

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0428	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	122%	121%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	83-118%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (071615)		
Lab Sample ID:	FA26124-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041159.D	1	07/28/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0251	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (071615)		
Lab Sample ID:	FA26124-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088166.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2	W088167.D	4	07/31/15	MG	07/23/15	OP56951	SW4041

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0500 [a]	0.0038	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	0.0131	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0012	0.00096	mg/l	
85-01-8	Phenanthrene	0.0063	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [b]	84% [b]	33-118%
4165-60-0	Nitrobenzene-d5	64% [b]	79% [b]	42-108%
321-60-8	2-Fluorobiphenyl	83% [b]	78% [b]	40-106%
1718-51-0	Terphenyl-d14	65% [b]	74% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (071615)		
Lab Sample ID:	FA26124-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28B (071615)		
Lab Sample ID:	FA26124-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A (071615)		
Lab Sample ID:	FA26124-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087071.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (071615)		
Lab Sample ID:	FA26124-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041160.D	1	07/28/15	MV	07/23/15	OP56950	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (071615)		
Lab Sample ID:	FA26124-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088168.D	1	07/31/15	MG	07/23/15	OP56951	SW4041
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	80% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (071615)		
Lab Sample ID:	FA26124-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A (071615)		
Lab Sample ID:	FA26124-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28C (071615)		
Lab Sample ID:	FA26124-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087072.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	121%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (071615)		
Lab Sample ID:	FA26124-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041107.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	70%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (071615)		
Lab Sample ID:	FA26124-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051925.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	63% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (071615)		
Lab Sample ID:	FA26124-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28C (071615)		
Lab Sample ID:	FA26124-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071615)RC
Lab Sample ID:	FA26124-5
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	07/16/15
Date Received:	07/17/15
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970128.D	1	07/28/15	DP	n/a	n/a	VJ5049
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0454	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071615)RC		
Lab Sample ID:	FA26124-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041108.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0188	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071615)RC		
Lab Sample ID:	FA26124-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051926.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0344	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0086	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	0.0048	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	63% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (071615)RC		
Lab Sample ID:	FA26124-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (071615)RC		
Lab Sample ID:	FA26124-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (071615)		
Lab Sample ID:	FA26124-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087074.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		83-118%
17060-07-0	1,2-Dichloroethane-D4	125%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (071615)		
Lab Sample ID:	FA26124-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041109.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	68%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (071615)		
Lab Sample ID:	FA26124-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051927.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (071615)		
Lab Sample ID:	FA26124-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (071615)		
Lab Sample ID:	FA26124-6F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # FA26124

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION			
Accutest	Phone:	407-425-6700	
4405 Vineland Rd., Suite C-15	Fax:	407-425-0707	
Orlando, FL 32811			

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582Q
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: ARCADIS.
Address: 132 E. Washington ST Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074.00002
PM: Bryant Grigg
Email: bryant.grigg@arcadis-us.com
Phone: 317.231-6500 Fax: 317.231.6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☐ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: ____
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (site COCs only)	Total metals As + Pb	Dissolved Metals As+Pb (Lab filter + preserve)	COMMENTS	LAB USE
TB-2(071615)RC	2	—	—	—	—	—	LIQ	X					
MW-28B(071615)	7	7/16/15	1642	RC	N	Grab	GW	X	X	X	X		
MW-28A(071615)	7	7/16/15	1545	RC	N	Grab	GW	X	X	X	X		
MW-28C(071615)	7	7/16/15	1450	RC	N	Grab	GW	X	X	X	X		
Dup-1(071615)RC	7	7/16/15	—	RC	N	Grab	GW	X	X	X	X		

Relinquished By: Rochelle Coffman	Date Time: 7/16/15/1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See table 1 for site COCs.
Relinquished By: FX	Date Time:	Received By: J-Corse (ARC)	Date Time: 7-17-15 09:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: ☐ Yes ☐ No Custody Intact	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.2

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FA26124: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26124 CLIENT: ARCADIS PROJECT: 94158 29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 5

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.4
- [ ] CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- [X] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: RECEIVED 1 VIAL (8260) BROKEN FOR SAMPLE #2 ; RECEIVED 1 EXTRA SAMPLE WITH ID MW-32C 7-16-15 @ 12:56 NOT REQUESTED ON COC ; WILL BE SAMPLE #6 3 VIALS 2 METALS 2 AMBERS

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07/17/15

NF 10/14 receipt confirmation 102914.xls

5.1

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FA26124: Chain of Custody

Page 2 of 3



FA26124: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/30/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26125

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **34**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26125

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26125-1	07/16/15	00:00	ES	07/17/15	AQ	Trip Blank Water	TB-2 (071615)ES
FA26125-2	07/16/15	16:20	ES	07/17/15	AQ	Ground Water	MW-30B (071615)
FA26125-2F	07/16/15	16:20	ES	07/17/15	AQ	Groundwater Filtered	MW-30B (071615)
FA26125-3	07/16/15	15:32	ES	07/17/15	AQ	Ground Water	MW-30A (071615)
FA26125-3F	07/16/15	15:32	ES	07/17/15	AQ	Groundwater Filtered	MW-30A (071615)
FA26125-4	07/16/15	14:30	ES	07/17/15	AQ	Ground Water	MW-5D (071615)
FA26125-4F	07/16/15	14:30	ES	07/17/15	AQ	Groundwater Filtered	MW-5D (071615)
FA26125-5	07/16/15	13:40	ES	07/17/15	AQ	Ground Water	MW-55B (071615)
FA26125-5F	07/16/15	13:40	ES	07/17/15	AQ	Groundwater Filtered	MW-55B (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26125

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 11:10:07

4 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of FA26125. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VN3884

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26124-2MS, FA26124-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56942

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-2MS, FA26125-2MSD were used as the QC samples indicated.

Sample(s) FA26125-5 has surrogates outside control limits.

FA26125-5 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26125-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26125-5 for 2-Fluorophenol: Outside control limits due to dilution.

FA26125-5 for Phenol-d5: Outside control limits due to dilution.

FA26125-5 for Terphenyl-d14: Outside control limits due to dilution.

FA26125-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-4MS, FA26125-4MSD were used as the QC samples indicated.

Sample(s) FA26125-3, FA26125-5 have surrogates outside control limits.

OP56943-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26125-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26125-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26125-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26125-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26125-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26125-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26125-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26125-3 for Terphenyl-d14: Outside control limits due to dilution.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

FA26125-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26125-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26125-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26125-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26125-5 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26125-5 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26125-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26125-5 for Terphenyl-d14: Outside control limits due to dilution.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 29, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26124-2MS	MSVOA	N0087082.D	Trichlorofluoromethane
FA26124-2MSD	MSVOA	N0087083.D	Tetrahydrofuran, Trichlorofluoromethane
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VN3882-IC3882	MSVOA	N0087026.D	1,4-Dichlorobenzene, Carbon Disulfide, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087027.D	1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087029.D	Carbon Tetrachloride, Tert-Amyl Alcohol, Tetrahydrofuran, Trichlorofluoromethane
VN3882-IC3882	MSVOA	N0087031.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-IC3882	MSVOA	N0087032.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICC3882	MSVOA	N0087030.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICV3882	MSVOA	N0087034.D	Tetrahydrofuran, Trichlorofluoromethane
VN3884-BS	MSVOA	N0087062.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3884-CC3882	MSVOA	N0087061.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

28 Manual Integrations were found for FA26125

Summary of Hits

Job Number: FA26125
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26125-1	**TB-2 (071615)ES**					
No hits reported in this sample.						
FA26125-2	**MW-30B (071615)**					
Naphthalene		0.0084	0.0010		mg/l	SW846 8270D BY SIM
FA26125-2F	**MW-30B (071615)**					
No hits reported in this sample.						
FA26125-3	**MW-30A (071615)**					
Benzene		0.122	0.013		mg/l	SW846 8260B
Toluene		0.0424	0.013		mg/l	SW846 8260B
Ethylbenzene		0.0599	0.013		mg/l	SW846 8260B
Xylene (total)		0.126	0.038		mg/l	SW846 8260B
2,4-Dichlorophenol		0.0308	0.020		mg/l	SW846 8270D
2,4-Dimethylphenol		0.150	0.020		mg/l	SW846 8270D
2-Methylphenol		0.0201	0.020		mg/l	SW846 8270D
Carbazole		0.0610	0.020		mg/l	SW846 8270D
Dibenzofuran		0.0329	0.020		mg/l	SW846 8270D
Acenaphthene		0.0809	0.040		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0901	0.040		mg/l	SW846 8270D BY SIM
Naphthalene		3.56	0.40		mg/l	SW846 8270D BY SIM
FA26125-3F	**MW-30A (071615)**					
No hits reported in this sample.						
FA26125-4	**MW-5D (071615)**					
Naphthalene		0.0068	0.0010		mg/l	SW846 8270D BY SIM
FA26125-4F	**MW-5D (071615)**					
No hits reported in this sample.						
FA26125-5	**MW-55B (071615)**					
Benzene		0.265	0.025		mg/l	SW846 8260B
Toluene		0.0932	0.025		mg/l	SW846 8260B
Ethylbenzene		0.158	0.025		mg/l	SW846 8260B
Xylene (total)		0.380	0.075		mg/l	SW846 8260B

Summary of Hits

Job Number: FA26125
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2,4-Dimethylphenol		1.01	0.098		mg/l	SW846 8270D
2-Methylphenol		0.195	0.020		mg/l	SW846 8270D
3&4-Methylphenol		0.105	0.020		mg/l	SW846 8270D
Carbazole		0.208	0.020		mg/l	SW846 8270D
Dibenzofuran		0.109	0.020		mg/l	SW846 8270D
Acenaphthene		0.218	0.039		mg/l	SW846 8270D BY SIM
Fluorene		0.0874	0.039		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.357	0.039		mg/l	SW846 8270D BY SIM
Naphthalene		7.16	0.39		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0504	0.039		mg/l	SW846 8270D BY SIM

FA26125-5F **MW-55B (071615)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071615)ES		
Lab Sample ID:	FA26125-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087075.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		83-118%
17060-07-0	1,2-Dichloroethane-D4	125%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (071615)		
Lab Sample ID:	FA26125-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087076.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		83-118%
17060-07-0	1,2-Dichloroethane-D4	125%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B (071615)
Lab Sample ID: FA26125-2 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041110.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (071615)		
Lab Sample ID:	FA26125-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051928.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0084	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (071615)		
Lab Sample ID:	FA26125-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (071615)		
Lab Sample ID:	FA26125-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-30A (071615)
Lab Sample ID: FA26125-3 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087077.D	2.5	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.122	0.013	mg/l	
108-88-3	Toluene	0.0424	0.013	mg/l	
100-41-4	Ethylbenzene	0.0599	0.013	mg/l	
1330-20-7	Xylene (total)	0.126	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		83-118%
17060-07-0	1,2-Dichloroethane-D4	122%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30A (071615)
Lab Sample ID: FA26125-3 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041113.D	4	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0308	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	0.150	0.020	mg/l	
95-48-7	2-Methylphenol	0.0201	0.020	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.0610	0.020	mg/l	
132-64-9	Dibenzofuran	0.0329	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	71%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (071615)		
Lab Sample ID:	FA26125-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051929.D	40	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2	W088044.D	400	07/28/15	MG	07/23/15	OP56943	SW4038

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.040	mg/l	
83-32-9	Acenaphthene	0.0809	0.040	mg/l	
208-96-8	Acenaphthylene	ND	0.040	mg/l	
120-12-7	Anthracene	ND	0.040	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0080	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0080	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0080	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0080	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0080	mg/l	
218-01-9	Chrysene	ND	0.0080	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0080	mg/l	
206-44-0	Fluoranthene	ND	0.040	mg/l	
86-73-7	Fluorene	ND	0.040	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0080	mg/l	
91-57-6	2-Methylnaphthalene	0.0901	0.040	mg/l	
91-20-3	Naphthalene	3.56 [a]	0.40	mg/l	
85-01-8	Phenanthrene	ND	0.040	mg/l	
129-00-0	Pyrene	ND	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (071615)		
Lab Sample ID:	FA26125-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30A (071615)		
Lab Sample ID:	FA26125-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5D (071615)		
Lab Sample ID:	FA26125-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087078.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-5D (071615)
Lab Sample ID: FA26125-4 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041114.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (071615)		
Lab Sample ID:	FA26125-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051930.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0068	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	62% [a]		40-106%
1718-51-0	Terphenyl-d14	70% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (071615)		
Lab Sample ID:	FA26125-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5D (071615)		
Lab Sample ID:	FA26125-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-55B (071615)
Lab Sample ID: FA26125-5 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087079.D	5	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.265	0.025	mg/l	
108-88-3	Toluene	0.0932	0.025	mg/l	
100-41-4	Ethylbenzene	0.158	0.025	mg/l	
1330-20-7	Xylene (total)	0.380	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	119%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	88%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55B (071615)
Lab Sample ID: FA26125-5 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041115.D	4	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2	X041163.D	20	07/28/15	MV	07/23/15	OP56942	SX1896

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	1.01 [a]	0.098	mg/l	
95-48-7	2-Methylphenol	0.195	0.020	mg/l	
	3&4-Methylphenol	0.105	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.208	0.020	mg/l	
132-64-9	Dibenzofuran	0.109	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%	0% [b]	14-67%
4165-62-2	Phenol-d5	23%	0% [b]	10-50%
118-79-6	2,4,6-Tribromophenol	69%	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	79%	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	68%	0% [b]	40-106%
1718-51-0	Terphenyl-d14	73%	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55B (071615)
Lab Sample ID: FA26125-5 **Date Sampled:** 07/16/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051933.D	40	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2	W088045.D	400	07/28/15	MG	07/23/15	OP56943	SW4038

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.039	mg/l	
83-32-9	Acenaphthene	0.218	0.039	mg/l	
208-96-8	Acenaphthylene	ND	0.039	mg/l	
120-12-7	Anthracene	ND	0.039	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0078	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0078	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0078	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0078	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0078	mg/l	
218-01-9	Chrysene	ND	0.0078	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0078	mg/l	
206-44-0	Fluoranthene	ND	0.039	mg/l	
86-73-7	Fluorene	0.0874	0.039	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0078	mg/l	
91-57-6	2-Methylnaphthalene	0.357	0.039	mg/l	
91-20-3	Naphthalene	7.16 [a]	0.39	mg/l	
85-01-8	Phenanthrene	0.0504	0.039	mg/l	
129-00-0	Pyrene	ND	0.039	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (071615)		
Lab Sample ID:	FA26125-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (071615)		
Lab Sample ID:	FA26125-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # FA26125

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx.
Shipment Tracking No: ~~FedEx~~ S.J.

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Boyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: EW53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 132 E. Washington St #600
City, State, Zip: Indianapolis IN 46204
Project #: IN000072.0074.00002
PM: Bryant Griggs.
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [x] Level IV
- [x] Other Deliv: Data Only no hard copy
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ 1 0 2 0
Pres. Code

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (Site COCs only)	Total Metals As+Pb	Dissolved Metals As+Pb (lab filter & preserve)	COMMENTS	LAB USE
1	TB-2(071615)-ES.	2	7/16/15	—	—	—	—	liq	X					
2	MW-30B(071615)	7	7/16/15	1620	ES	N	Grab	GW	X	X	X	X		
3	MW-30A(071615)	7	7/16/15	1532	ES	N	Grab	GW	X	X	X	X		
4	MW-5D(071615)	7	7/16/15	1430	ES	N	Grab	GW	X	X	X	X		
5	MW-55B(071615)	7	7/16/15	1340	ES	N	Grab	GW	X	X	X	X		

Relinquished By: Ezra Lee	Date Time: 7/16/15 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See table 1 for site COCs.
Relinquished By: FX	Date Time:	Received By: J-Corne (ARSK)	Date Time: 7-17-15 09:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26125: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26125 CLIENT: AVOCADIS PROJECT: 9415829

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.4

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

NF 10/14

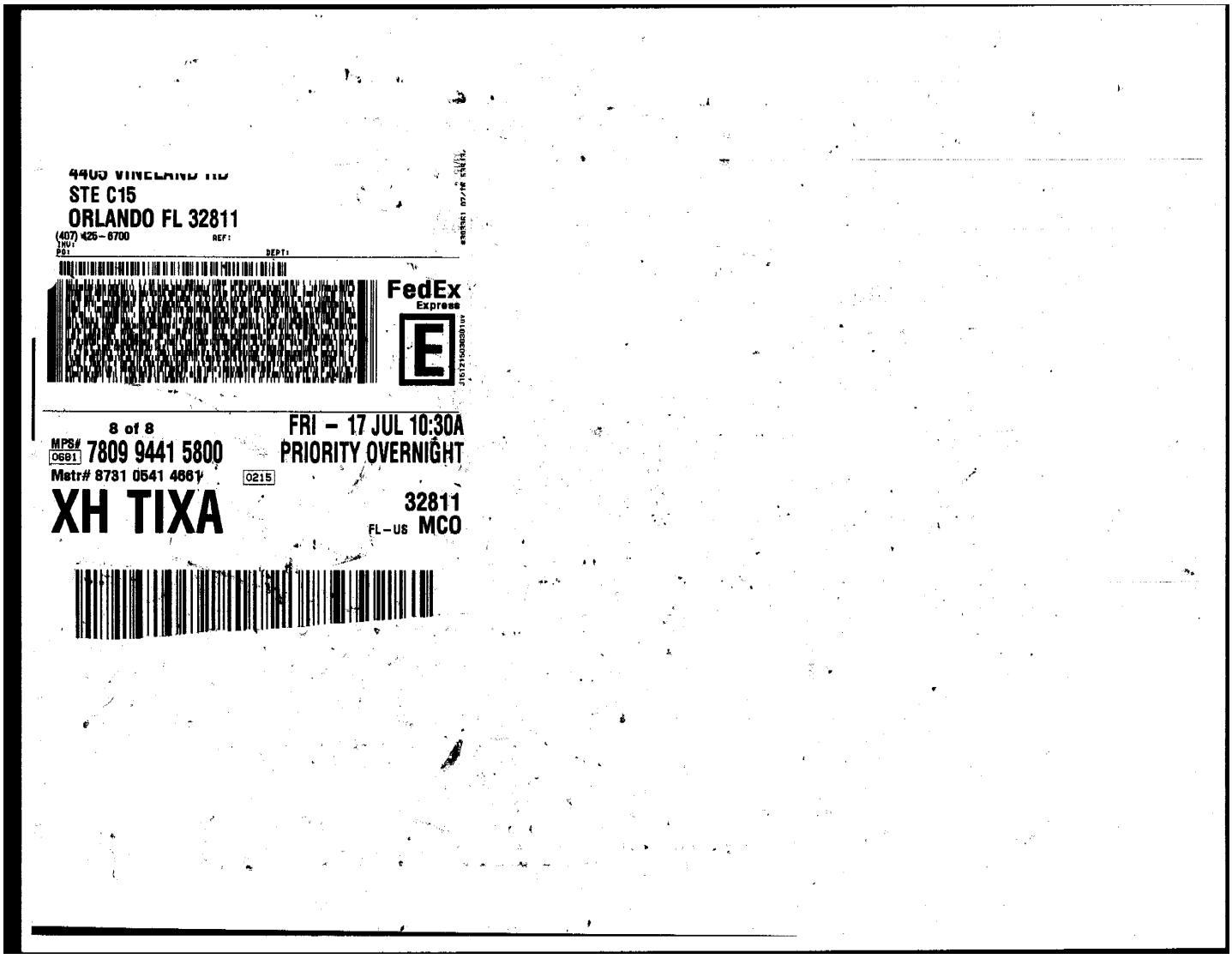
receipt confirmation 102914.xls

5.1

5

FA26125: Chain of Custody

Page 2 of 3



FA26125: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/31/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26126

Sampling Dates: 07/15/15 - 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: FA26126

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26126-1	07/15/15	00:00	RW	07/17/15	AQ	Trip Blank Water	TB-3 (071515)RW
FA26126-2	07/15/15	15:36	RW	07/17/15	AQ	Ground Water	MW-34A (071515)
FA26126-2F	07/15/15	15:36	RW	07/17/15	AQ	Groundwater Filtered	MW-34A (071515)
FA26126-3	07/15/15	16:00	RW	07/17/15	AQ	Ground Water	MW-6S (071515)
FA26126-3F	07/15/15	16:00	RW	07/17/15	AQ	Groundwater Filtered	MW-6S (071515)
FA26126-4	07/15/15	16:24	RW	07/17/15	AQ	Ground Water	MW-6D (071515)
FA26126-4F	07/15/15	16:24	RW	07/17/15	AQ	Groundwater Filtered	MW-6D (071515)
FA26126-5	07/16/15	08:21	RW	07/17/15	AQ	Ground Water	MW-31B (071615)
FA26126-5F	07/16/15	08:21	RW	07/17/15	AQ	Groundwater Filtered	MW-31B (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26126

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/31/2015 10:59:44

4 Sample(s), 1 Trip Blank(s) were collected on/between 07/15/2015 and 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA26126. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5049

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26363-1MS, FA26363-1MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VM3515

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2MS, FA26127-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Benzene, Ethylbenzene, Xylene (total) are outside control limits for sample FA26127-2MSD. Probable cause is due to sample non-homogeneity.

FA26126-2: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VN3884

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26124-2MS, FA26124-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56924

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-5MS, FA26084-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Dibenzofuran are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Matrix: AQ **Batch ID:** OP56942

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-2MS, FA26125-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56925

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26084-3MS, FA26084-3MSD were used as the QC samples indicated.

Matrix Spike /Matrix Spike Duplicate Recovery(s) for Acenaphthene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limit in MS/MSD.

Matrix Spike Recovery for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Sample(s) FA26126-2 has surrogates outside control limits.

OP56925-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56925-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26126-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA26126-2 for Terphenyl-d14: Outside control limits due to dilution.

FA26126-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA26126-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA26126-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26126-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26126-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26126-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26126-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26126-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26126-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26126-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP56943

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-4MS, FA26125-4MSD were used as the QC samples indicated.

Sample(s) FA26126-2 has surrogates outside control limits.

OP56943-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26126-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26126-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26126-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26126-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29186

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26027-2DUP, FA26027-2MS, FA26027-2MSD, FA26027-2PS, FA26027-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29186-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29186-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA26126-2 for Lead: Elevated reporting limit(s) due to matrix interference.

Matrix: AQ **Batch ID:** MP29192

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26158-4DUP, FA26158-4MS, FA26158-4MSD, FA26158-4PS, FA26158-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29192-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29192-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 31, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26124-2MS	MSVOA	N0087082.D	Trichlorofluoromethane
FA26124-2MSD	MSVOA	N0087083.D	Tetrahydrofuran, Trichlorofluoromethane
FA26127-2MS	MSVOA	M83034.D	Carbon Tetrachloride, Tetrahydrofuran
FA26127-2MSD	MSVOA	M83035.D	Carbon Tetrachloride, Methyl Bromide, Tetrahydrofuran
FA26363-1MS	MSVOA	J0970140.D	Carbon Tetrachloride
FA26363-1MSD	MSVOA	J0970141.D	Carbon Tetrachloride
SL3685-IC3685	MSSEMI	L0683014.D	alpha-Terpineol, Benzoic Acid
SL3685-IC3685	MSSEMI	L0683015.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683016.D	alpha-Terpineol
SL3685-IC3685	MSSEMI	L0683018.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683019.D	Benzoic Acid
SL3685-IC3685	MSSEMI	L0683020.D	Benzoic Acid
SL3685-ICC3685	MSSEMI	L0683017.D	Benzoic Acid
SL3685-ICV3685	MSSEMI	L0683022.D	m-Dinitrobenzene
SL3689-CC3685	MSSEMI	L0683076.D	Benzoic Acid
SL3690-CC3685	MSSEMI	L0683103.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5049-BS	MSVOA	J0970117.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5049-CC5039	MSVOA	J0970116.D	Carbon Tetrachloride, Ethyl Alcohol
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-BS	MSVOA	M83013.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-CC3513	MSVOA	M83009.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran
VN3882-IC3882	MSVOA	N0087026.D	1,4-Dichlorobenzene, Carbon Disulfide, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087027.D	1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, Trichlorofluoromethane, Vinyl Acetate
VN3882-IC3882	MSVOA	N0087029.D	Carbon Tetrachloride, Tert-Amyl Alcohol, Tetrahydrofuran, Trichlorofluoromethane

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
VN3882-IC3882	MSVOA	N0087031.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-IC3882	MSVOA	N0087032.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICC3882	MSVOA	N0087030.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3882-ICV3882	MSVOA	N0087034.D	Tetrahydrofuran, Trichlorofluoromethane
VN3884-BS	MSVOA	N0087062.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane
VN3884-CC3882	MSVOA	N0087061.D	Carbon Tetrachloride, Tetrahydrofuran, Trichlorofluoromethane

51 Manual Integrations were found for FA26126

Summary of Hits

Job Number: FA26126
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15 thru 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26126-1	**TB-3 (071515)RW**					
No hits reported in this sample.						
FA26126-2	**MW-34A (071515)**					
Benzene [a]		0.178	0.025		mg/l	SW846 8260B
Toluene [a]		0.196	0.025		mg/l	SW846 8260B
Ethylbenzene [a]		0.124	0.025		mg/l	SW846 8260B
Xylene (total) [a]		0.319	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol		0.458	0.050		mg/l	SW846 8270D
2-Methylphenol		0.0762	0.050		mg/l	SW846 8270D
3&4-Methylphenol		0.108	0.050		mg/l	SW846 8270D
Carbazole		0.217	0.050		mg/l	SW846 8270D
Dibenzofuran		0.210	0.050		mg/l	SW846 8270D
Pentachlorophenol		0.522	0.10		mg/l	SW846 8270D BY SIM
Acenaphthene		0.240	0.10		mg/l	SW846 8270D BY SIM
Fluorene		0.124	0.10		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.408	0.10		mg/l	SW846 8270D BY SIM
Naphthalene		5.53	0.40		mg/l	SW846 8270D BY SIM
Phenanthrene		0.118	0.10		mg/l	SW846 8270D BY SIM
Arsenic		0.159	0.010		mg/l	SW846 6010C
Lead [b]		0.127	0.020		mg/l	SW846 6010C
FA26126-2F	**MW-34A (071515)**					
Arsenic		0.0103	0.010		mg/l	SW846 6010C
FA26126-3	**MW-6S (071515)**					
No hits reported in this sample.						
FA26126-3F	**MW-6S (071515)**					
No hits reported in this sample.						
FA26126-4	**MW-6D (071515)**					
2-Methylnaphthalene		0.0010	0.0010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0064	0.0010		mg/l	SW846 8270D BY SIM
FA26126-4F	**MW-6D (071515)**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA26126
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/15/15 thru 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26126-5	**MW-31B (071615)**					
Naphthalene		0.0013	0.0010		mg/l	SW846 8270D BY SIM
FA26126-5F	**MW-31B (071615)**					

No hits reported in this sample.

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) Elevated reporting limit(s) due to matrix interference.

Southeast ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-3 (071515)RW		
Lab Sample ID:	FA26126-1	**Date Sampled:**	07/15/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0087080.D	1	07/23/15	RB	n/a	n/a	VN3884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071515)		
Lab Sample ID:	FA26126-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M83027.D	5	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.178	0.025	mg/l	
108-88-3	Toluene	0.196	0.025	mg/l	
100-41-4	Ethylbenzene	0.124	0.025	mg/l	
1330-20-7	Xylene (total)	0.319	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	88%		83-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071515)		
Lab Sample ID:	FA26126-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683087.D	10	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.050	mg/l	
105-67-9	2,4-Dimethylphenol	0.458	0.050	mg/l	
95-48-7	2-Methylphenol	0.0762	0.050	mg/l	
	3&4-Methylphenol	0.108	0.050	mg/l	
108-95-2	Phenol	ND	0.050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.050	mg/l	
86-74-8	Carbazole	0.217	0.050	mg/l	
132-64-9	Dibenzofuran	0.210	0.050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	27%		10-50%
118-79-6	2,4,6-Tribromophenol	63%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	79%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (071515)
Lab Sample ID: FA26126-2 **Date Sampled:** 07/15/15
Matrix: AQ - Ground Water **Date Received:** 07/17/15
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051875.D	100	07/23/15	ME	07/22/15	OP56925	SU2359
Run #2	U051890.D	400	07/23/15	ME	07/22/15	OP56925	SU2359

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.522	0.10	mg/l	
83-32-9	Acenaphthene	0.240	0.10	mg/l	
208-96-8	Acenaphthylene	ND	0.10	mg/l	
120-12-7	Anthracene	ND	0.10	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	mg/l	
218-01-9	Chrysene	ND	0.020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	mg/l	
206-44-0	Fluoranthene	ND	0.10	mg/l	
86-73-7	Fluorene	0.124	0.10	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	mg/l	
91-57-6	2-Methylnaphthalene	0.408	0.10	mg/l	
91-20-3	Naphthalene	5.53 [a]	0.40	mg/l	
85-01-8	Phenanthrene	0.118	0.10	mg/l	
129-00-0	Pyrene	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (071515)		
Lab Sample ID:	FA26126-2	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.159	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [3]
Lead [a]	0.127	0.020	mg/l	4	07/22/15	07/23/15	LM	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA12541
(2) Instrument QC Batch: MA12544
(3) Prep QC Batch: MP29191

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (071515)		
Lab Sample ID:	FA26126-2F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0103	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S (071515)		
Lab Sample ID:	FA26126-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970129.D	1	07/28/15	DP	n/a	n/a	VJ5049
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (071515)		
Lab Sample ID:	FA26126-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683088.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0051	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	mg/l	
	3&4-Methylphenol	ND	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	mg/l	
86-74-8	Carbazole	ND	0.0051	mg/l	
132-64-9	Dibenzofuran	ND	0.0051	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	58%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (071515)		
Lab Sample ID:	FA26126-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051859.D	1	07/22/15	MG	07/22/15	OP56925	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (071515)		
Lab Sample ID:	FA26126-3	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S (071515)		
Lab Sample ID:	FA26126-3F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12538
(2) Prep QC Batch: MP29186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6D (071515)		
Lab Sample ID:	FA26126-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83029.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071515)		
Lab Sample ID:	FA26126-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0683089.D	1	07/23/15	MV	07/22/15	OP56924	SL3689
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0051	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	mg/l	
	3&4-Methylphenol	ND	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	mg/l	
86-74-8	Carbazole	ND	0.0051	mg/l	
132-64-9	Dibenzofuran	ND	0.0051	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071515)		
Lab Sample ID:	FA26126-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051860.D	1	07/22/15	MG	07/22/15	OP56925	SU2358
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	0.0010	0.0010	mg/l	
91-20-3	Naphthalene	0.0064	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	64% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (071515)		
Lab Sample ID:	FA26126-4	**Date Sampled:**	07/15/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6D (071515)		
Lab Sample ID:	FA26126-4F	**Date Sampled:**	07/15/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (071615)		
Lab Sample ID:	FA26126-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83030.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (071615)		
Lab Sample ID:	FA26126-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041116.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	54%		33-118%
4165-60-0	Nitrobenzene-d5	48%		42-108%
321-60-8	2-Fluorobiphenyl	49%		40-106%
1718-51-0	Terphenyl-d14	60%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (071615)		
Lab Sample ID:	FA26126-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051934.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0013	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	58% [a]		33-118%
4165-60-0	Nitrobenzene-d5	50% [a]		42-108%
321-60-8	2-Fluorobiphenyl	49% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (071615)		
Lab Sample ID:	FA26126-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (071615)		
Lab Sample ID:	FA26126-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26126

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FDX-EXP
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Gregoire
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV-53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St., Ste. 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074.00001
PM: Bryant Gribbell @ arcadis-us.com
Email: Bryant Gribbell
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days ____
- [X] Standard 14 Days
- [ ] Other ____

Deliverables:
- [ ] CSXT Standard (Level II)
- [ ] Level III
- [X] Level IV
- [X] Other Deliv: DATA CD only, NJ Hard Copy
- [X] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code: 1 0 2 0

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	8260	8270 SIM (Poly, Ca, Mn)	Total Manganese	Dissolved Manganese (Lab Filtered)	COMMENTS	LAB USE
TB-3 (071515) RW	2	7-15-15	—	—	—	—	LIQ	X					
MW-34A (071517)	7	7-15-15	1536	RW	N	GRAB	GW	X	X	X	X		
MW-60S (071517)	7	7-15-15	1600	RW	N	GRAB	GW	X	X	X	X		
MW-60D (071517)	7	7-15-15	1624	RW	N	GRAB	GW	X	X	X	X		
MW-31B (071617)	7	7-16-15	0831	RW	N	GRAB	GW	X	X	X	X		

Relinquished By:	Date Time: 7/16/15/1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: -SEE TABLE 1 FOR SAMPLE COCs	
Relinquished By: FX	Date Time:	Received By: J Cornell (ARS)	Date Time: 7-17-15 09:15		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26126: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26126 CLIENT: ARCADIS PROJECT: 94158 29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.6

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 1

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

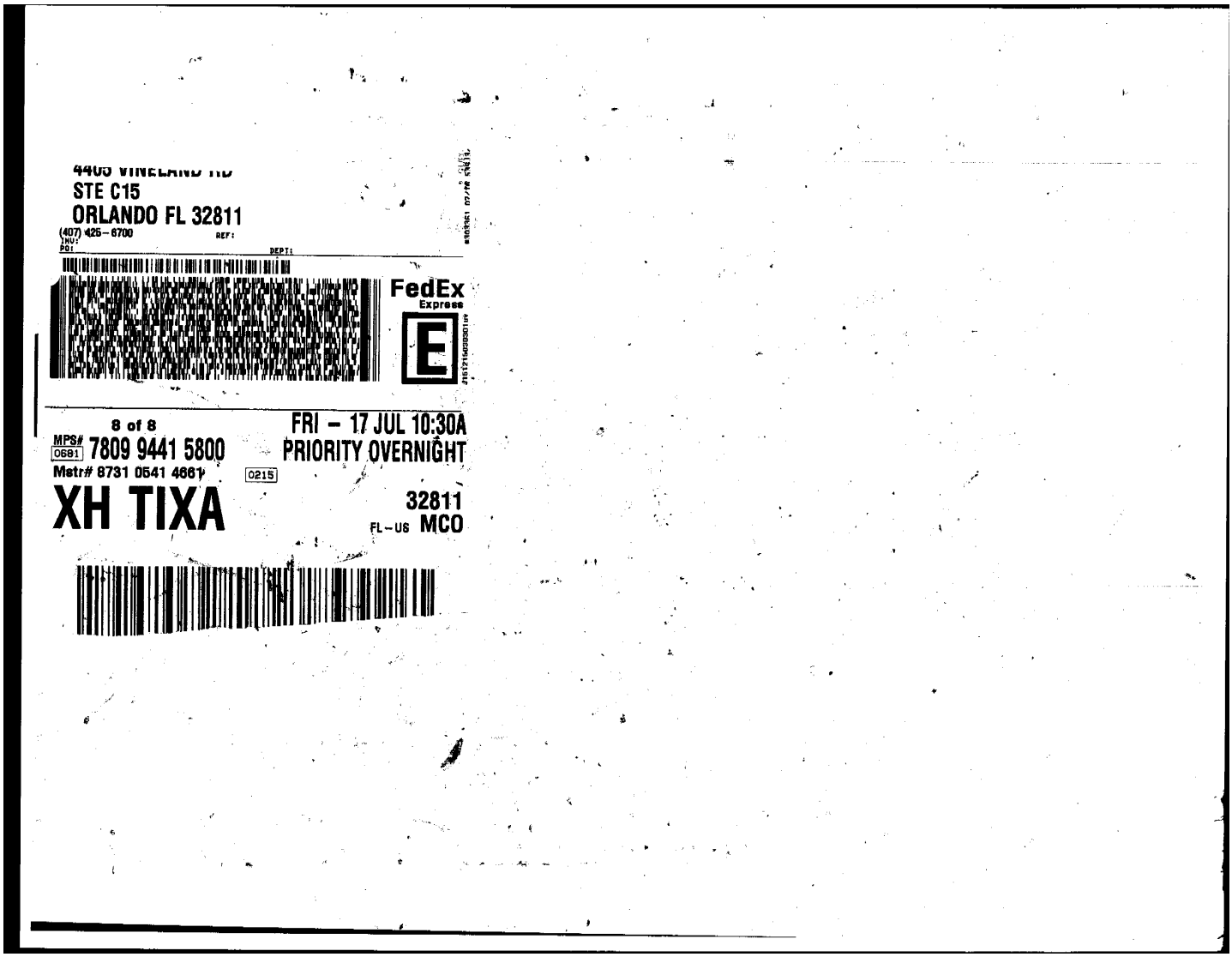
SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

NF 10/14

receipt confirmation 102914.xls

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FA26126: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST
LABORATORIES

07/28/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26127

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26127

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA26127-1	07/16/15	00:00	RC	07/17/15	AQ	Trip Blank Water	TB-1 (071615)RC
FA26127-2	07/16/15	10:55	RC	07/17/15	AQ	Ground Water	MW-32A (071615)
FA26127-2F	07/16/15	10:55	RC	07/17/15	AQ	Groundwater Filtered	MW-32A (071615)
FA26127-3	07/16/15	12:07	RC	07/17/15	AQ	Ground Water	MW-32B (071615)
FA26127-3F	07/16/15	12:07	RC	07/17/15	AQ	Groundwater Filtered	MW-32B (071615)
FA26127-4	07/16/15	09:30	RC	07/17/15	AQ	Ground Water	MW-52A (071615)
FA26127-4F	07/16/15	09:30	RC	07/17/15	AQ	Groundwater Filtered	MW-52A (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26127

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date** 7/28/2015 10:11:46

3 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 07/16/2015 and were received at Accutest on 07/17/2015 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of FA26127. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM3515

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2MS, FA26127-2MSD were used as the QC samples indicated.

RPD(s) for MSD for Benzene, Ethylbenzene, Xylene (total) are outside control limits for sample FA26127-2MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA26127-1 has surrogates outside control limits. Probable cause is due to matrix interference.

FA26127-1 for 4-Bromofluorobenzene: Outside control limits; however, sample is ND.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56942

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-2MS, FA26125-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-4MS, FA26125-4MSD were used as the QC samples indicated.

OP56943-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26127-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26127-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26127-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26127-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26127-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26127-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26127-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26127-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26127-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26127-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26127-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26127-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29187

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2FDUP, FA26127-2FMS, FA26127-2FMSD, FA26127-2FPS, FA26127-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29191

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26127-2DUP, FA26127-2MS, FA26127-2MSD, FA26127-2PS, FA26127-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29191-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP29191-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP29192

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26158-4DUP, FA26158-4MS, FA26158-4MSD, FA26158-4PS, FA26158-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29192-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29192-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: July 28, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26127-2MS	MSVOA	M83034.D	Carbon Tetrachloride, Tetrahydrofuran
FA26127-2MSD	MSVOA	M83035.D	Carbon Tetrachloride, Methyl Bromide, Tetrahydrofuran
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
VM3513-IC3513	MSVOA	M82944.D	1,4-Dichlorobenzene, Dichlorodifluoromethane, Vinyl Chloride
VM3513-IC3513	MSVOA	M82945.D	1,4-Dichlorobenzene, Carbon Tetrachloride, Dichlorodifluoromethane, Methyl Chloride, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82946.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Cyclohexanone, Dichlorodifluoromethane, Freon 113, Methyl Chloride, Tetrahydrofuran
VM3513-IC3513	MSVOA	M82948.D	1,2-Dibromoethane, Carbon Tetrachloride, Cyclohexanone, Methylene Bromide, Tetrahydrofuran,
VM3513-IC3513	MSVOA	M82949.D	Carbon Tetrachloride, Cyclohexanone, Tetrahydrofuran
VM3513-ICC3513	MSVOA	M82947.D	4-Methyl-2-pentanone (MIBK), Carbon Tetrachloride, Tetrahydrofuran
VM3513-ICV3513	MSVOA	M82951.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-BS	MSVOA	M83013.D	Carbon Tetrachloride, Tetrahydrofuran
VM3515-CC3513	MSVOA	M83009.D	2-Butanone (MEK), Carbon Tetrachloride, Tetrahydrofuran

19 Manual Integrations were found for FA26127

Summary of Hits

Job Number: FA26127
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA26127-1 **TB-1 (071615)RC**

No hits reported in this sample.

FA26127-2 **MW-32A (071615)**

No hits reported in this sample.

FA26127-2F **MW-32A (071615)**

No hits reported in this sample.

FA26127-3 **MW-32B (071615)**

No hits reported in this sample.

FA26127-3F **MW-32B (071615)**

No hits reported in this sample.

FA26127-4 **MW-52A (071615)**

No hits reported in this sample.

FA26127-4F **MW-52A (071615)**

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071615)RC		
Lab Sample ID:	FA26127-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83031.D	1	07/24/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	119% [a]		83-118%

(a) Outside control limits; however, sample is ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (071615)		
Lab Sample ID:	FA26127-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83023.D	1	07/23/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (071615)		
Lab Sample ID:	FA26127-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041117.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	64%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	67%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (071615)		
Lab Sample ID:	FA26127-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051935.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (071615)		
Lab Sample ID:	FA26127-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29191

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (071615)		
Lab Sample ID:	FA26127-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/21/15	07/21/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12540
(2) Prep QC Batch: MP29187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (071615)		
Lab Sample ID:	FA26127-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83032.D	1	07/24/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (071615)		
Lab Sample ID:	FA26127-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041118.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	57%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (071615)		
Lab Sample ID:	FA26127-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051936.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (071615)		
Lab Sample ID:	FA26127-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32B (071615)		
Lab Sample ID:	FA26127-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (071615)		
Lab Sample ID:	FA26127-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M83033.D	1	07/24/15	RB	n/a	n/a	VM3515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071615)		
Lab Sample ID:	FA26127-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041119.D	1	07/24/15	MV	07/23/15	OP56942	SX1894
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	18%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071615)		
Lab Sample ID:	FA26127-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051937.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	66% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-52A (071615)		
Lab Sample ID:	FA26127-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (071615)		
Lab Sample ID:	FA26127-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # FA26127

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method:
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: EW53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E. Washington St. Suite 600
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0074.00002
PM: Bryant Griggs
Email: bryant.griggs@arcadis-us.com
Phone: 317-231-6500 Fax: 317.231.6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days (Specify # Days ____)
- ☐ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: ____
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 SIM (Site COCs only)	Total Metals As + Pb	Dissolved Metals As + Pb (Lab Filtered, Preserved)	COMMENTS	LAB USE
1	TB-1(071615)RC	2	—	—	—	—	—	GW	X					
2	MW-32A(071615)	21	7/16/15	10:55	RC	N	GRAB	GW	X	X	X	X		
3	MW-32B(071615)	7	7/16/15	12:07	RC	N	GRAB	GW	X	X	X	X		
4	MW-52A(071615)	7	7/16/15	9:30	RC	N	GRAB	GW	X	X	X	X		
	~~MW-32C(071615)~~	~~7~~	~~7/16/15~~	~~12:56~~	~~RC~~	~~N~~	~~GRAB~~	~~GW~~	~~RC~~					
	~~MW-55(071515)~~	~~7~~	~~7/15/15~~	~~17:05~~	~~RC~~	~~N~~	~~GRAB~~	~~GW~~	~~RC~~					

Relinquished By: Rochelle Coffman	Date Time: 7/16/15 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See table 1 for site COCs
Relinquished By: FX	Date Time:	Received By: J-Corne (ADR)	Date Time: 7-17-15 09:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA26127: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26127 CLIENT: AECOM PROJECT: 94158 29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? 4

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 2.8

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

NF 10/14

receipt confirmation 102914.xls

5.1 5

FA26127: Chain of Custody

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FA26127: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

07/29/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26128

Sampling Date: 07/16/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **39**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26128

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26128-1	07/16/15	00:00	RW	07/17/15	AQ	Trip Blank Water	TB-2 (071615)
FA26128-2	07/16/15	13:25	RW	07/17/15	AQ	Ground Water	MW-1D (071615)
FA26128-2F	07/16/15	13:25	RW	07/17/15	AQ	Groundwater Filtered	MW-1D (071615)
FA26128-3	07/16/15	14:04	RW	07/17/15	AQ	Ground Water	MW-11D (071615)
FA26128-3F	07/16/15	14:04	RW	07/17/15	AQ	Groundwater Filtered	MW-11D (071615)
FA26128-4	07/16/15	15:10	RW	07/17/15	AQ	Ground Water	MW-40A (071615)
FA26128-4F	07/16/15	15:10	RW	07/17/15	AQ	Groundwater Filtered	MW-40A (071615)
FA26128-5	07/16/15	15:40	RW	07/17/15	AQ	Ground Water	MW-40B (071615)
FA26128-5F	07/16/15	15:40	RW	07/17/15	AQ	Groundwater Filtered	MW-40B (071615)
FA26128-6	07/16/15	16:03	RW	07/17/15	AQ	Ground Water	MW-40C (071615)
FA26128-6F	07/16/15	16:03	RW	07/17/15	AQ	Groundwater Filtered	MW-40C (071615)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26128

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 7/29/2015 5:30:58 PM

5 Sample(s), 1 Trip Blank(s) were collected on 07/16/2015 and were received at Accutest SE on 07/17/2015 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of FA26128. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VI781

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26238-8MS, FA26238-8MSD were used as the QC samples indicated.

Matrix Spike /Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56942

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-2MS, FA26125-2MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26125-4MS, FA26125-4MSD were used as the QC samples indicated.

OP56943-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP56943-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26128-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26128-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26128-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26128-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26128-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26128-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26128-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26128-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26128-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26128-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26128-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26128-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56943

FA26128-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26128-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26128-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26128-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26128-6 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26128-6 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26128-6 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26128-6 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29190

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26193-1DUP, FA26193-1MS, FA26193-1MSD, FA26193-1PS, FA26193-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29190-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: AQ **Batch ID:** MP29192

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26158-4DUP, FA26158-4MS, FA26158-4MSD, FA26158-4PS, FA26158-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP29192-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP29192-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: July 29, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA26238-8MS	MSVOA	I31810.D	Carbon Tetrachloride
FA26238-8MSD	MSVOA	I31811.D	Carbon Tetrachloride
SX1884-IC1884	MSSEMI	X040798.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040800.D	Benzoic Acid
SX1884-IC1884	MSSEMI	X040801.D	Benzoic Acid, Caprolactam
SX1884-IC1884	MSSEMI	X040802.D	Benzoic Acid, Caprolactam
SX1884-ICC1884	MSSEMI	X040799.D	Benzoic Acid
SX1884-ICV1884	MSSEMI	X040803.D	Benzaldehyde
SX1885-ICV1884	MSSEMI	X040807.D	2,4-Dinitrophenol
SX1894-CC1884	MSSEMI	X041096.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1896-CC1895	MSSEMI	X041140.D	Benzoic Acid
VI779-IC779	MSVOA	I31719.D	Carbon Tetrachloride
VI779-IC779	MSVOA	I31722.D	Carbon Tetrachloride
VI779-IC779	MSVOA	I31723.D	Carbon Tetrachloride
VI779-IC779	MSVOA	I31725.D	Carbon Tetrachloride
VI779-ICC779	MSVOA	I31721.D	Carbon Tetrachloride
VI779-ICV779	MSVOA	I31726.D	Carbon Tetrachloride
VI781-BS	MSVOA	I31788.D	Carbon Tetrachloride
VI781-CC779	MSVOA	I31784.D	Carbon Tetrachloride

27 Manual Integrations were found for FA26128

Summary of Hits

Job Number: FA26128
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26128-1	**TB-2 (071615)**					
No hits reported in this sample.						
FA26128-2	**MW-1D (071615)**					
Ethylbenzene		0.0141	0.0050		mg/l	SW846 8260B
Carbazole		0.0711	0.0050		mg/l	SW846 8270D
Dibenzofuran		0.0965	0.0050		mg/l	SW846 8270D
Acenaphthene		0.216	0.010		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0234	0.010		mg/l	SW846 8270D BY SIM
Fluorene		0.116	0.010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0803	0.010		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0574	0.010		mg/l	SW846 8270D BY SIM
Pyrene		0.0146	0.010		mg/l	SW846 8270D BY SIM
FA26128-2F	**MW-1D (071615)**					
No hits reported in this sample.						
FA26128-3	**MW-11D (071615)**					
Acenaphthene		0.0037	0.0010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0010	0.0010		mg/l	SW846 8270D BY SIM
Lead		0.0098	0.0050		mg/l	SW846 6010C
FA26128-3F	**MW-11D (071615)**					
No hits reported in this sample.						
FA26128-4	**MW-40A (071615)**					
Lead		0.0083	0.0050		mg/l	SW846 6010C
FA26128-4F	**MW-40A (071615)**					
No hits reported in this sample.						
FA26128-5	**MW-40B (071615)**					
Acenaphthene		0.0026	0.0010		mg/l	SW846 8270D BY SIM
Arsenic		0.0194	0.010		mg/l	SW846 6010C

Summary of Hits

Job Number: FA26128
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/16/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26128-5F	**MW-40B (071615)**					
No hits reported in this sample.						
FA26128-6	**MW-40C (071615)**					
Acenaphthene		0.0019	0.0010		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0051	0.0010		mg/l	SW846 8270D BY SIM
Pyrene		0.0026	0.0010		mg/l	SW846 8270D BY SIM
FA26128-6F	**MW-40C (071615)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-2 (071615)		
Lab Sample ID:	FA26128-1	**Date Sampled:**	07/16/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31803.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D (071615)		
Lab Sample ID:	FA26128-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31804.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0141	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D (071615)		
Lab Sample ID:	FA26128-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041164.D	1	07/28/15	MV	07/23/15	OP56942	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	0.0711	0.0050	mg/l	
132-64-9	Dibenzofuran	0.0965	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D (071615)		
Lab Sample ID:	FA26128-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051938.D	10	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.010	mg/l	
83-32-9	Acenaphthene	0.216	0.010	mg/l	
208-96-8	Acenaphthylene	ND	0.010	mg/l	
120-12-7	Anthracene	ND	0.010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0020	mg/l	
218-01-9	Chrysene	ND	0.0020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0020	mg/l	
206-44-0	Fluoranthene	0.0234	0.010	mg/l	
86-73-7	Fluorene	0.116	0.010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.010	mg/l	
91-20-3	Naphthalene	0.0803	0.010	mg/l	
85-01-8	Phenanthrene	0.0574	0.010	mg/l	
129-00-0	Pyrene	0.0146	0.010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	69% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D (071615)		
Lab Sample ID:	FA26128-2	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1D (071615)		
Lab Sample ID:	FA26128-2F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-11D (071615)		
Lab Sample ID:	FA26128-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31805.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	93%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (071615)		
Lab Sample ID:	FA26128-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041165.D	1	07/28/15	MV	07/23/15	OP56942	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	69%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	60%		40-106%
1718-51-0	Terphenyl-d14	76%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (071615)		
Lab Sample ID:	FA26128-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051939.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0037	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0010	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	71% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (071615)		
Lab Sample ID:	FA26128-3	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0098	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-11D (071615)		
Lab Sample ID:	FA26128-3F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (071615)		
Lab Sample ID:	FA26128-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31806.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (071615)		
Lab Sample ID:	FA26128-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041166.D	1	07/28/15	MV	07/23/15	OP56942	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (071615)		
Lab Sample ID:	FA26128-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051940.D	1	07/24/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	67% [a]		40-106%
1718-51-0	Terphenyl-d14	68% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (071615)		
Lab Sample ID:	FA26128-4	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0083	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (071615)		
Lab Sample ID:	FA26128-4F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (071615)		
Lab Sample ID:	FA26128-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31807.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (071615)		
Lab Sample ID:	FA26128-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041167.D	1	07/28/15	MV	07/23/15	OP56942	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (071615)		
Lab Sample ID:	FA26128-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051943.D	1	07/25/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0026	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	76% [a]		42-108%
321-60-8	2-Fluorobiphenyl	74% [a]		40-106%
1718-51-0	Terphenyl-d14	74% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (071615)		
Lab Sample ID:	FA26128-5	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0194	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (071615)		
Lab Sample ID:	FA26128-5F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (071615)		
Lab Sample ID:	FA26128-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I31808.D	1	07/23/15	WV	n/a	n/a	VI781
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	96%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (071615)		
Lab Sample ID:	FA26128-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041168.D	1	07/28/15	MV	07/23/15	OP56942	SX1896
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (071615)		
Lab Sample ID:	FA26128-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U051944.D	1	07/25/15	ME	07/23/15	OP56943	SU2360
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0019	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	0.0051	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	0.0026	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	75% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	72% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (071615)		
Lab Sample ID:	FA26128-6	**Date Sampled:**	07/16/15
Matrix:	AQ - Ground Water	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12541
(2) Prep QC Batch: MP29192

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (071615)		
Lab Sample ID:	FA26128-6F	**Date Sampled:**	07/16/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/17/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/22/15	07/22/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12542
(2) Prep QC Batch: MP29190

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # FA 26128

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582
CSXT Project Name: IN CREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 132 E Washington St, Ste 1200
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0034.00002
PM: Bryant Bradley
Email: Bryant.Bradley@arcadis-us.com
Phone: 317-231-6505 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: DATA QC Only, No Hard Copy
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ 1 0 2 0
Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC SCTO 8270 (SIM Only)	TOTAL METALS: As 6010	DISS METALS: (4 x 0.45) (As/Cr, Fe Then + Pass)	COMMENTS	LAB USE
1	TB-2 (071615)	2	7-16-15	—	—	—	—	LIQ	X					
2	MW-1D (071615)	7		1325	RW	N	Grab	GW	X	X	X	X		
3	MW-11D (071615)	7		1404					X	X	X	X		
4	MW-40A (071615)	7		1510					X	X	X	X		
5	MW-40B (071615)	7		1540					X	X	X	X		
6	MW-40C (071615)	7	↓	1603	↓	↓	↓	↓	X	X	X	X		

Relinquished By:	Date Time: 7-16-15 / 1800	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - SEE TABLE 2 FOR SCTO COCs
Relinquished By: FX	Date Time:	Received By: J. Comer (Accutest)	Date Time: 7-17-15 09:15	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: ☐ Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3-0

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FA26128: Chain of Custody
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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 26128 CLIENT: ARCADIS PROJECT: 94158.29

DATE/TIME RECEIVED: 7-17-15 09:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8731 0541 4661

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.0

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 5

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7-17-15 REVIEWER SIGNATURE/DATE 07-17-15

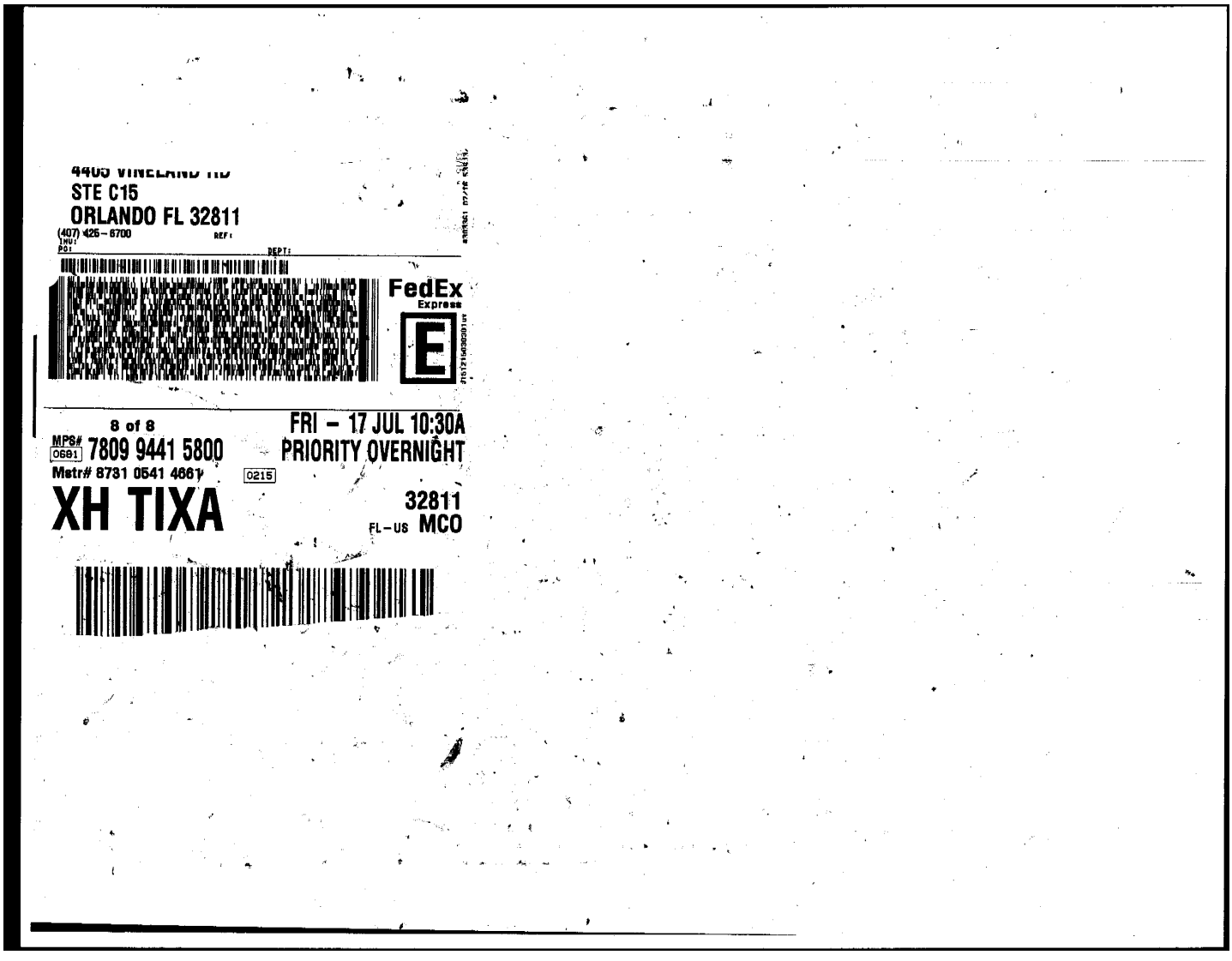
NF 10/14

receipt confirmation 102914.xls

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FA26128: Chain of Custody

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FA26128: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST LABORATORIES

08/04/15



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

Accutest Job Number: FA26163

Sampling Date: 07/17/15

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **32**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

CSX Transportation

Job No: FA26163

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA26163-1	07/17/15	00:00	RWRC	07/18/15	AQ	Trip Blank Water	TB-1 (071715)RW
FA26163-2	07/17/15	07:27	RWRC	07/18/15	AQ	Ground Water	MW-43A (071715)
FA26163-2F	07/17/15	07:27	RWRC	07/18/15	AQ	Groundwater Filtered	MW-43A (071715)
FA26163-3	07/17/15	07:50	RWRC	07/18/15	AQ	Ground Water	MW-29A (071715)
FA26163-3F	07/17/15	07:50	RWRC	07/18/15	AQ	Groundwater Filtered	MW-29A (071715)
FA26163-4	07/17/15	09:25	RWRC	07/18/15	AQ	Ground Water	MW-50A (071715)
FA26163-4F	07/17/15	09:25	RWRC	07/18/15	AQ	Groundwater Filtered	MW-50A (071715)
FA26163-5	07/17/15	10:18	RWRC	07/18/15	AQ	Ground Water	MW-50B (071715)
FA26163-5F	07/17/15	10:18	RWRC	07/18/15	AQ	Groundwater Filtered	MW-50B (071715)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA26163

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 8/4/2015 1:32:42 PM

4 Sample(s), 1 Trip Blank(s) were collected on 07/17/2015 and were received at Accutest SE on 07/18/2015 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of FA26163. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5046

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26163-5MS, FA26163-5MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP56965

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26163-5MS, FA26163-5MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP56966

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA26163-3MS, FA26163-3MSD were used as the QC samples indicated.

MS Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthylene, Chrysene, Naphthalene, Pentachlorophenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 2-Methylnaphthalene, Naphthalene are outside control limits for sample OP56966-MSD. Probable cause is due to sample non-homogeneity.

OP56966-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP56966-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
OP56966-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP56966-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26163-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26163-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26163-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26163-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26163-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26163-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26163-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26163-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26163-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26163-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA26163-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26163-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26163-5 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA26163-5 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA26163-5 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA26163-5 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP29196

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA26225-10FDUP, FA26225-10FMS, FA26225-10FMSD, FA26225-10FPS, FA26225-10FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP29196-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: August 4, 2015

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA26163-3	MSSEMI	W088039.D	Benzo(a)anthracene
FA26163-5MS	MSVOA	J0970052.D	Carbon Tetrachloride
FA26163-5MSD	MSVOA	J0970053.D	Carbon Tetrachloride, Ethyl Alcohol
OP56965-BS	MSSEMI	X041200.D	Caprolactam
OP56965-MS	MSSEMI	X041205.D	Caprolactam
OP56965-MSD	MSSEMI	X041206.D	Caprolactam
SX1895-IC1895	MSSEMI	X041130.D	Benzo(k)fluoranthene, Benzoic Acid
SX1895-IC1895	MSSEMI	X041131.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041132.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041134.D	Benzoic Acid
SX1895-IC1895	MSSEMI	X041135.D	Benzoic Acid, Caprolactam
SX1895-IC1895	MSSEMI	X041136.D	Benzoic Acid, Caprolactam
SX1895-ICC1895	MSSEMI	X041133.D	Benzoic Acid
SX1895-ICV1895	MSSEMI	X041138.D	Caprolactam
SX1898-CC1895	MSSEMI	X041199.D	Benzoic Acid, Caprolactam
VJ5039-IC5039	MSVOA	J0969904.D	1,2-Dibromo-3-chloropropane, 1,3-Butadiene, 1,4-Dichlorobenzene, Acetone, Dichlorodifluoromethane, Ethyl Alcohol, Trichlorofluoromethane
VJ5039-IC5039	MSVOA	J0969905.D	Acetonitrile, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969906.D	Bromochloromethane, Carbon
VJ5039-IC5039	MSVOA	J0969908.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-IC5039	MSVOA	J0969909.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICC5039	MSVOA	J0969907.D	Bromochloromethane, Carbon Tetrachloride, Ethyl Alcohol
VJ5039-ICV5039	MSVOA	J0969911.D	Ethyl Alcohol
VJ5045-CC5039	MSVOA	J0970027.D	Ethyl Alcohol

23 Manual Integrations were found for FA26163

Summary of Hits

Job Number: FA26163
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 07/17/15

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA26163-1	**TB-1 (071715)RW**					
No hits reported in this sample.						
FA26163-2	**MW-43A (071715)**					
Acenaphthene		0.0023	0.00096		mg/l	SW846 8270D BY SIM
FA26163-2F	**MW-43A (071715)**					
No hits reported in this sample.						
FA26163-3	**MW-29A (071715)**					
Acenaphthene		0.0012	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0019	0.00095		mg/l	SW846 8270D BY SIM
FA26163-3F	**MW-29A (071715)**					
No hits reported in this sample.						
FA26163-4	**MW-50A (071715)**					
No hits reported in this sample.						
FA26163-4F	**MW-50A (071715)**					
No hits reported in this sample.						
FA26163-5	**MW-50B (071715)**					
No hits reported in this sample.						
FA26163-5F	**MW-50B (071715)**					
No hits reported in this sample.						

Southeast ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1 (071715)RW		
Lab Sample ID:	FA26163-1	**Date Sampled:**	07/17/15
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/18/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970045.D	1	07/24/15	MM	n/a	n/a	VJ5046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (071715)		
Lab Sample ID:	FA26163-2	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970046.D	1	07/24/15	MM	n/a	n/a	VJ5046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (071715)		
Lab Sample ID:	FA26163-2	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041207.D	1	07/31/15	MV	07/24/15	OP56965	SX1898
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	21%		10-50%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (071715)		
Lab Sample ID:	FA26163-2	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088038.D	1	07/28/15	MG	07/24/15	OP56966	SW4038
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0023	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	106% [a]		40-106%
1718-51-0	Terphenyl-d14	79% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (071715)		
Lab Sample ID:	FA26163-2	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-43A (071715)		
Lab Sample ID:	FA26163-2F	**Date Sampled:**	07/17/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A (071715)		
Lab Sample ID:	FA26163-3	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970047.D	1	07/24/15	MM	n/a	n/a	VJ5046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (071715)		
Lab Sample ID:	FA26163-3	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041209.D	1	07/31/15	MV	07/24/15	OP56965	SX1898
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		14-67%
4165-62-2	Phenol-d5	28%		10-50%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (071715)		
Lab Sample ID:	FA26163-3	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088039.D	1	07/28/15	MG	07/24/15	OP56966	SW4038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0012	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0019	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	88% [a]		40-106%
1718-51-0	Terphenyl-d14	79% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-29A (071715)		
Lab Sample ID:	FA26163-3	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-29A (071715)		
Lab Sample ID:	FA26163-3F	**Date Sampled:**	07/17/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (071715)		
Lab Sample ID:	FA26163-4	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970048.D	1	07/24/15	MM	n/a	n/a	VJ5046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (071715)		
Lab Sample ID:	FA26163-4	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041210.D	1	07/31/15	MV	07/24/15	OP56965	SX1898
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (071715)		
Lab Sample ID:	FA26163-4	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088040.D	1	07/28/15	MG	07/24/15	OP56966	SW4038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	82% [a]		40-106%
1718-51-0	Terphenyl-d14	82% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (071715)		
Lab Sample ID:	FA26163-4	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50A (071715)		
Lab Sample ID:	FA26163-4F	**Date Sampled:**	07/17/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (071715)		
Lab Sample ID:	FA26163-5	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0970049.D	1	07/24/15	MM	n/a	n/a	VJ5046
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (071715)		
Lab Sample ID:	FA26163-5	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X041204.D	1	07/31/15	MV	07/24/15	OP56965	SX1898
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (071715)		
Lab Sample ID:	FA26163-5	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W088041.D	1	07/28/15	MG	07/24/15	OP56966	SW4038
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	73% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	91% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (071715)		
Lab Sample ID:	FA26163-5	**Date Sampled:**	07/17/15
Matrix:	AQ - Ground Water	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-50B (071715)		
Lab Sample ID:	FA26163-5F	**Date Sampled:**	07/17/15
Matrix:	AQ - Groundwater Filtered	**Date Received:**	07/18/15
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	07/23/15	07/23/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12544
(2) Prep QC Batch: MP29196

RL = Reporting Limit

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA26163

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FED EX
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: ARCADIS	Project #: IN000072.0074.00002
CSXT Project Name: IN CREOSOTE	Proj. City: BLOOMINGTON	Address: 132 E. WASHINGTON ST., #600	PM: BRYANT GRIGGS
CSXT Contact: DAN DYER	LWON: ENV53216	City, State, Zip: INDIANAPOLIS IN 46204	Email: bryant.griggs@arcadis-us.com
			Phone: (317)231-6500 Fax: (317)231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☒ Level IV
- ☒ Other Deliv: SWA 6D ONLY, NO Maps Copy
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code: 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 SIM (SITE COCs ONLY)	TOTAL MEMS: Aft FB ONLY	DISSOLVED MEMS: As+Fe (LAB FILTERED + PRESERVED)	COMMENTS	LAB USE
1	TB-1 (071715) RW	2	7-17-15	—	—	—	—	LEVG	X					
2	MW-43A (071715)	7	7/17/15	0727	RW	N	GRAB	GW	X	X	X	X		
3	MW-29A (071715)	7	7/17/15	0750	RW	N	GRAB	GW	X	X	X	X		
4	MW-50A (071715)	7	7/17/15	09:25	RC	N	GRAB	GW	X	X	X	X		
5	MW-50B (071715)	7	7/17/15	10:18	RC	N	GRAB	GW	X	X	X	X		

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Rachelle Gifford	7/17/15 1400	FX	
2	FX 07-18-15	1430		
3				

Comments & Special Analytical Requirements: – SEE TABLE 1 FOR SITE COCs

Received By Laboratory: | Date Time: | Lab Remarks:

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # # | LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES | Rev. 5/21/02 | 26 | INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA26163: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA26163 CLIENT: Arcadis PROJECT: 94158 29

DATE/TIME RECEIVED: 07-18-15 1430 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 873105414694

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ? 4

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 28
- [ ] CORRECTED TEMPS: 26

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 07-20-15 REVIEWER SIGNATURE/DATE: 7-20-15

NF 10/14 receipt confirmation 102914.xls

5.1.5

FA26163: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52403

Sampling Date: 03/12/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 27

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52403

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52403-1	03/12/18	14:25	RW	03/13/18	AQ	Ground Water	MW-48A (031218)
FA52403-1F	03/12/18	14:25	RW	03/13/18	AQ	Groundwater Filtered	MW-48A (031218)
FA52403-2	03/12/18	15:34	RW	03/13/18	AQ	Ground Water	MW-48B (031218)
FA52403-2D	03/12/18	15:34	RW	03/13/18	AQ	Water Dup/MSD	MW-48B (031218)
FA52403-2F	03/12/18	15:34	RW	03/13/18	AQ	Groundwater Filtered	MW-48B (031218)
FA52403-2FD	03/12/18	15:34	RW	03/13/18	AQ	Water Dup/MSD	MW-48B (031218)
FA52403-2FS	03/12/18	15:34	RW	03/13/18	AQ	Water Matrix Spike	MW-48B (031218)
FA52403-2S	03/12/18	15:34	RW	03/13/18	AQ	Water Matrix Spike	MW-48B (031218)
FA52403-3	03/12/18	00:00	RW	03/13/18	AQ	Ground Water	DUP-1 (031218)
FA52403-3F	03/12/18	00:00	RW	03/13/18	AQ	Groundwater Filtered	DUP-1 (031218)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52403

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:39:45

3 Sample(s) were collected on 03/12/2018 and were received at SGS North America Inc - Orlando on 03/13/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52403. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1944

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52620-1MS, FA52620-1MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VO1946

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52403-3 have surrogates outside control limits.

FA52403-3 for 4-Bromofluorobenzene: Outside control limits.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52403-1, FA52403-3 have surrogates outside control limits.

FA52403-1 for Phenol-d5: Outside control limits.

FA52403-1: Confirmed by re-extraction and reanalysis.

FA52403-3: Dilution required due to matrix interference (internal standard failure).

FA52403-3 for Nitrobenzene-d5: Outside control limits.

FA52403-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-3 for 2-Fluorophenol: Outside control limits due to dilution.

FA52403-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-3 for Phenol-d5: Outside control limits due to dilution.

FA52403-3 for Nitrobenzene-d5: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP69297

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

OP69297: No Matrix QC available.

Sample(s) FA52403-1, FA52403-3 have surrogates outside control limits.

FA52403-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-1 for 2-Methylphenol: Re-extract results reported because they were significantly higher than original results.

FA52403-1 for Nitrobenzene-d5: Outside control limits due to dilution.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69297

FA52403-1 for 2-Fluorophenol: Outside control limits due to dilution.

FA52403-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-1 for 2-Fluorophenol: Outside control limits due to dilution.

FA52403-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52403-1 for Phenol-d5: Outside control limits due to dilution.

FA52403-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-1 for 2,4-Dimethylphenol: Re-extract results reported because they were significantly higher than original

FA52403-1 for Carbazole: Re-extract results reported because they were significantly higher than original results.

FA52403-1 for Phenol-d5: Outside control limits due to dilution.

FA52403-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-1 for Dibenzofuran: Re-extract results reported because they were significantly higher than original results.

FA52403-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-3 for 2-Fluorophenol: Outside control limits due to dilution.

FA52403-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52403-3 for Phenol-d5: Outside control limits due to dilution.

FA52403-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-3 for Carbazole: Re-extract results reported because they were significantly higher than original results.

FA52403-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52403-3 for 2-Fluorophenol: Outside control limits due to dilution.

FA52403-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-3 for Dibenzofuran: Re-extract results reported because they were significantly higher than original results.

FA52403-3 for 3&4-Methylphenol: Re-extract results reported because they were significantly higher than original

FA52403-3 for 2-Methylphenol: Re-extract results reported because they were significantly higher than original results.

FA52403-3 for 2,4-Dimethylphenol: Re-extract results reported because they were significantly higher than original

FA52403-3 for Phenol-d5: Outside control limits due to dilution.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52403-1, FA52403-2, FA52403-3, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52403-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52403-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-1 for Nitrobenzene-d5: Outside control limits due to dilution.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

FA52403-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52403-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52403-2 for Terphenyl-d14: Outside control limits due to dilution.

FA52403-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52403-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52403-3 for Terphenyl-d14: Outside control limits due to dilution.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33476

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2DUP, FA52403-2MS, FA52403-2MSD, FA52403-2PS, FA52403-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33476-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33483

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2FDUP, FA52403-2FMS, FA52403-2FMSD, FA52403-2FPS, FA52403-2FSDL were used as the QC samples for metals.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52403
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/12/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52403-1	**MW-48A (031218)**					
Benzene		0.164	0.013		mg/l	SW846 8260B
Toluene		0.411	0.050		mg/l	SW846 8260B
Ethylbenzene		0.163	0.013		mg/l	SW846 8260B
Xylene (total)		0.573	0.038		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.444	0.099		mg/l	SW846 8270D
Carbazole [a]		1.69	0.099		mg/l	SW846 8270D
Dibenzofuran [a]		6.61	0.50		mg/l	SW846 8270D
Acenaphthene		0.393	0.20		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0457	0.041		mg/l	SW846 8270D BY SIM
Fluoranthene		0.217	0.20		mg/l	SW846 8270D BY SIM
Fluorene		0.276	0.20		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.666	0.20		mg/l	SW846 8270D BY SIM
Naphthalene		7.38	0.20		mg/l	SW846 8270D BY SIM
Phenanthrene		0.536	0.20		mg/l	SW846 8270D BY SIM
Arsenic		0.0200	0.010		mg/l	SW846 6010C
FA52403-1F	**MW-48A (031218)**					
Arsenic		0.0247	0.010		mg/l	SW846 6010C
FA52403-2	**MW-48B (031218)**					
Benzene		0.0273	0.0050		mg/l	SW846 8260B
Toluene		0.0742	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0285	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0865	0.015		mg/l	SW846 8260B
2,4-Dichlorophenol		0.0179	0.0049		mg/l	SW846 8270D
2,4-Dimethylphenol		0.0783	0.0049		mg/l	SW846 8270D
Carbazole		0.0817	0.0049		mg/l	SW846 8270D
Dibenzofuran		0.0563	0.0049		mg/l	SW846 8270D
2-Methylnaphthalene		0.155	0.097		mg/l	SW846 8270D BY SIM
Naphthalene		2.49	0.097		mg/l	SW846 8270D BY SIM
FA52403-2F	**MW-48B (031218)**					
No hits reported in this sample.						
FA52403-3	**DUP-1 (031218)**					
Benzene		0.170	0.013		mg/l	SW846 8260B
Toluene		0.400	0.050		mg/l	SW846 8260B
Ethylbenzene		0.171	0.013		mg/l	SW846 8260B
Xylene (total)		0.614	0.038		mg/l	SW846 8260B

Summary of Hits

Job Number: FA52403
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/12/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
2,4-Dimethylphenol [a]		0.483	0.097		mg/l	SW846 8270D
Carbazole [a]		0.882	0.097		mg/l	SW846 8270D
Dibenzofuran [a]		2.58	0.24		mg/l	SW846 8270D
Naphthalene		2.17	0.51		mg/l	SW846 8270D BY SIM
Arsenic		0.0191	0.010		mg/l	SW846 6010C
FA52403-3F	**DUP-1 (031218)**					
Arsenic		0.0122	0.010		mg/l	SW846 6010C

(a) Re-extract results reported because they were significantly higher than original results.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-48A (031218)
Lab Sample ID: FA52403-1 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51822.D	2.5	03/22/18 18:13	SP	n/a	n/a	VO1946
Run #2	O51749.D	10	03/21/18 12:22	SP	n/a	n/a	VO1944

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.164	0.013	mg/l	
108-88-3	Toluene	0.411 [a]	0.050	mg/l	
100-41-4	Ethylbenzene	0.163	0.013	mg/l	
1330-20-7	Xylene (total)	0.573	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	99%	79-125%
2037-26-5	Toluene-D8	102%	106%	85-112%
460-00-4	4-Bromofluorobenzene	85%	86%	83-118%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48A (031218)
Lab Sample ID: FA52403-1 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000596.D	4	03/20/18 17:10	MV	03/16/18 08:30	OP69203	S9I25
Run #2	9I000633.D	4	03/23/18 18:40	MV	03/22/18 13:45	OP69297	S9I26
Run #3	9I000670.D	20	03/26/18 21:06	MV	03/22/18 13:45	OP69297	S9I27

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	1010 ml	5.0 ml
Run #3	1010 ml	5.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol [b]	0.444 [c]	0.099	mg/l	
95-48-7	2-Methylphenol [b]	ND [c]	0.099	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole [b]	1.69 [c]	0.099	mg/l	
132-64-9	Dibenzofuran [b]	6.61 [d]	0.50	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	16%	0% [e]	0% [e]	14-67%
4165-62-2	Phenol-d5	9% [f]	0% [e]	0% [e]	10-50%
118-79-6	2,4,6-Tribromophenol	58%	0% [e]	0% [e]	33-118%
4165-60-0	Nitrobenzene-d5	86%	0% [e]	0% [e]	42-108%
321-60-8	2-Fluorobiphenyl	66%	0% [e]	0% [e]	40-106%
1718-51-0	Terphenyl-d14	46%	0% [e]	0% [e]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Re-extract results reported because they were significantly higher than original results.
(c) Result is from Run# 2
(d) Result is from Run# 3
(e) Outside control limits due to dilution.
(f) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (031218)		
Lab Sample ID:	FA52403-1	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3600.D	200	03/23/18 16:01	FS	03/16/18 08:30	OP69204	S4D135
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.20	mg/l	
83-32-9	Acenaphthene	0.393	0.20	mg/l	
208-96-8	Acenaphthylene	ND	0.20	mg/l	
120-12-7	Anthracene	ND	0.20	mg/l	
56-55-3	Benzo(a)anthracene	0.0457	0.041	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.041	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.041	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.041	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.041	mg/l	
218-01-9	Chrysene	ND	0.041	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.041	mg/l	
206-44-0	Fluoranthene	0.217	0.20	mg/l	
86-73-7	Fluorene	0.276	0.20	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.041	mg/l	
91-57-6	2-Methylnaphthalene	0.666	0.20	mg/l	
91-20-3	Naphthalene	7.38	0.20	mg/l	
85-01-8	Phenanthrene	0.536	0.20	mg/l	
129-00-0	Pyrene	ND	0.20	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48A (031218)		
Lab Sample ID:	FA52403-1	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0200	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48A (031218)		
Lab Sample ID:	FA52403-1F	**Date Sampled:**	03/12/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0247	0.010	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14764
(2) Prep QC Batch: MP33483

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-48B (031218)
Lab Sample ID: FA52403-2 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51820.D	1	03/22/18 17:32	SP	n/a	n/a	VO1946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0273	0.0050	mg/l	
108-88-3	Toluene	0.0742	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0285	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0865	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	87%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (031218)
Lab Sample ID: FA52403-2 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000597.D	1	03/20/18 17:36	MV	03/16/18 08:30	OP69203	S9I25
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0179	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	0.0783	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0817	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0563	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	87%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	54%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-48B (031218)
Lab Sample ID: FA52403-2 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01785.D	100	03/27/18 19:34	FS	03/16/18 08:30	OP69204	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.097	mg/l	
83-32-9	Acenaphthene	ND	0.097	mg/l	
208-96-8	Acenaphthylene	ND	0.097	mg/l	
120-12-7	Anthracene	ND	0.097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.019	mg/l	
218-01-9	Chrysene	ND	0.019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.019	mg/l	
206-44-0	Fluoranthene	ND	0.097	mg/l	
86-73-7	Fluorene	ND	0.097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.019	mg/l	
91-57-6	2-Methylnaphthalene	0.155	0.097	mg/l	
91-20-3	Naphthalene	2.49	0.097	mg/l	
85-01-8	Phenanthrene	ND	0.097	mg/l	
129-00-0	Pyrene	ND	0.097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-48B (031218)		
Lab Sample ID:	FA52403-2	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-48B (031218)		
Lab Sample ID:	FA52403-2F	**Date Sampled:**	03/12/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14764
(2) Prep QC Batch: MP33483

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031218)		
Lab Sample ID:	FA52403-3	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51821.D	2.5	03/22/18 17:53	SP	n/a	n/a	VO1946
Run #2	O51751.D	10	03/21/18 13:04	SP	n/a	n/a	VO1944

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.170	0.013	mg/l	
108-88-3	Toluene	0.400 [a]	0.050	mg/l	
100-41-4	Ethylbenzene	0.171	0.013	mg/l	
1330-20-7	Xylene (total)	0.614	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	98%	79-125%
2037-26-5	Toluene-D8	100%	105%	85-112%
460-00-4	4-Bromofluorobenzene	81% [b]	89%	83-118%

(a) Result is from Run# 2
(b) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031218)
Lab Sample ID: FA52403-3 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000601.D	4	03/20/18 19:17	MV	03/16/18 08:30	OP69203	S9I25
Run #2	9I000634.D	4	03/23/18 19:06	MV	03/22/18 12:45	OP69297	S9I26
Run #3	9I000635.D	10	03/23/18 19:31	MV	03/22/18 12:45	OP69297	S9I26
Run #4	9I000678.D	10	03/27/18 00:29	MV	03/16/18 08:30	OP69203	S9I27

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	1030 ml	5.0 ml
Run #3	1030 ml	5.0 ml
Run #4	980 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol [b]	0.483 [c]	0.097	mg/l	
95-48-7	2-Methylphenol [b]	ND [c]	0.097	mg/l	
	3&4-Methylphenol [b]	ND [c]	0.097	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole [b]	0.882 [c]	0.097	mg/l	
132-64-9	Dibenzofuran [b]	2.58 [d]	0.24	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	22%	0% [e]	0% [e]	14-67%
4165-62-2	Phenol-d5	13%	0% [e]	0% [e]	10-50%
118-79-6	2,4,6-Tribromophenol	84%	0% [e]	0% [e]	33-118%
4165-60-0	Nitrobenzene-d5	111% [f]	0% [e]	0% [e]	42-108%
321-60-8	2-Fluorobiphenyl	72%	0% [e]	0% [e]	40-106%
1718-51-0	Terphenyl-d14	39%	0% [e]	0% [e]	39-121%

(a) Dilution required due to matrix interference (internal standard failure).
(b) Re-extract results reported because they were significantly higher than original results.
(c) Result is from Run# 2
(d) Result is from Run# 3
(e) Outside control limits due to dilution.
(f) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031218)
Lab Sample ID: FA52403-3 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01788.D	500	03/27/18 20:44	FS	03/16/18 08:30	OP69204	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.51	mg/l	
83-32-9	Acenaphthene	ND	0.51	mg/l	
208-96-8	Acenaphthylene	ND	0.51	mg/l	
120-12-7	Anthracene	ND	0.51	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.10	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.10	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	mg/l	
218-01-9	Chrysene	ND	0.10	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	mg/l	
206-44-0	Fluoranthene	ND	0.51	mg/l	
86-73-7	Fluorene	ND	0.51	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.51	mg/l	
91-20-3	Naphthalene	2.17	0.51	mg/l	
85-01-8	Phenanthrene	ND	0.51	mg/l	
129-00-0	Pyrene	ND	0.51	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (031218)		
Lab Sample ID:	FA52403-3	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0191	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031218)		
Lab Sample ID:	FA52403-3F	**Date Sampled:**	03/12/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0122	0.010	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14764
(2) Prep QC Batch: MP33483

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52403 2 Coolers

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FED-EX
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: ARCADIS	Project #: IN000722.0077.00001
CSXT Project Name: FN CBEO SITE	Proj. City: BLOOMINGTON	Address: 150 W. MARKET ST, STE 728	PM: KENDALL WOODRUFF
CSXT Contact: DAN DYER	LWON: ENV53216	City, State, Zip: INDIANAPOLIS, IN 46204	Email: KENDALL.WOODRUFF@ARCADIS.COM
			Phone: 317-231-6500 Fax: 317-231-6574

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days (Specify # Days ____)
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: DATA CD ONLY
- ☒ EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note Pres. Code ➡ 1 0 2 0

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: 8260 8260 (SITE LIST) VOCs 8270 TOTAL METALS (As+Pb) DISSOLVED METALS (As+Pb)	COMMENTS	LAB USE
1	MW-48A (031218)	7	3-12-18	1425	RW	N	G	GW	X X X X		
2	MW-48B (031218)	21	"	1534	"	"	"	GW	X X X X	MS/MSD	
3	DUP-1 (031218) RW	7	"	—	"	"	"	GW	X X X X	FIELD DUP	

	Date Time:	Received By:	Date Time:
Relinquished By:	3-12-18 1730	FX	
Relinquished By:	03/13/18 9:30		03/13/18 9:30
Relinquished By:			
Received By Laboratory:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #

Comments & Special Analytical Requirements:
- SEE TABLE 1 FOR SITE LIST
- DISSOLVED METALS - LAB FILTER + PRESERVE (1 LAMBDA)
- PROVIDE IN STAND ALONE REPORT

LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.4 3.6

5.1 5

FA52403: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52403 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/13/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 813015085699

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 2

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0); Cooler 2: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.4); Cooler 2: (3.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/13/2018 9:30:00 AM Reviewer: P.H Date: 3/13/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52404

Sampling Date: 03/12/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 23

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52404

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52404-1	03/12/18	14:50	CSRW	03/13/18	AQ	Ground Water	MW-30A (031218)
FA52404-2	03/12/18	15:55	CSRW	03/13/18	AQ	Ground Water	MW-30B (031218)
FA52404-2F	03/12/18	15:55	CSRW	03/13/18	AQ	Groundwater Filtered	MW-30B (031218)
FA52404-3	03/12/18	15:50	CSRW	03/13/18	AQ	Ground Water	MW-5D (031218)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52404

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 2:06:31

3 Sample(s) were collected on 03/12/2018 and were received at SGS North America Inc - Orlando on 03/13/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52404. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E270

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52406-20MS, FA52406-20MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52404-3 have surrogates outside control limits.

FA52404-3: Confirmed ND by re-extraction and reanalysis.

FA52404-3 for Terphenyl-d14: Outside control limits.

Matrix: AQ **Batch ID:** OP69297

FA52404-3: Confirmation run for surrogate recoveries.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52404-1, FA52404-3, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52404-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52404-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52404-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

FA52404-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52404-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52404-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52404-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52404-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52404-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52404-3: Confirmed by re-extraction and reanalysis.

FA52404-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP69352

FA52404-3: Confirmation run.

FA52404-3: Confirmation run.

FA52404-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52404-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33469

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52218-45DUP, FA52218-45MS, FA52218-45MSD, FA52218-45PS, FA52218-45SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33469-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52404
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/12/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52404-1	**MW-30A (031218)**					
Benzene		0.137	0.010		mg/l	SW846 8260B
Toluene		0.0529	0.010		mg/l	SW846 8260B
Ethylbenzene		0.128	0.010		mg/l	SW846 8260B
Xylene (total)		0.284	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol		0.209	0.019		mg/l	SW846 8270D
2-Methylphenol		0.0311	0.019		mg/l	SW846 8270D
Carbazole		0.221	0.019		mg/l	SW846 8270D
Dibenzofuran		0.130	0.019		mg/l	SW846 8270D
Acenaphthene		0.281	0.048		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0104	0.0095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0505	0.048		mg/l	SW846 8270D BY SIM
Fluorene		0.136	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.476	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		5.58	0.19		mg/l	SW846 8270D BY SIM
Phenanthrene		0.161	0.048		mg/l	SW846 8270D BY SIM
FA52404-2	**MW-30B (031218)**					
Naphthalene		0.0058	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0050	0.0050		mg/l	SW846 6010C
FA52404-2F	**MW-30B (031218)**					
No hits reported in this sample.						
FA52404-3	**MW-5D (031218)**					
Naphthalene [a]		0.0661	0.0019		mg/l	SW846 8270D BY SIM

(a) Confirmed by re-extraction and reanalysis.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-30A (031218)
Lab Sample ID: FA52404-1 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6666.D	2	03/15/18 17:08	SO	n/a	n/a	V5E270
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.137	0.010	mg/l	
108-88-3	Toluene	0.0529	0.010	mg/l	
100-41-4	Ethylbenzene	0.128	0.010	mg/l	
1330-20-7	Xylene (total)	0.284	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (031218)		
Lab Sample ID:	FA52404-1	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059263.D	4	03/16/18 21:57	MV	03/16/18 08:30	OP69203	SX2481
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.209	0.019	mg/l	
95-48-7	2-Methylphenol	0.0311	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.221	0.019	mg/l	
132-64-9	Dibenzofuran	0.130	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	48%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (031218)
Lab Sample ID:	FA52404-1
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/12/18
Date Received:	03/13/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3605.D	50	03/23/18 18:40	FS	03/16/18 08:30	OP69204	S4D135
Run #2	4D3650.D	200	03/27/18 03:46	NJ	03/16/18 08:30	OP69204	S4D137

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.281	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	0.0104	0.0095	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.0095	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0095	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0095	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0095	mg/l	
218-01-9	Chrysene	ND	0.0095	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0095	mg/l	
206-44-0	Fluoranthene	0.0505	0.048	mg/l	
86-73-7	Fluorene	0.136	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0095	mg/l	
91-57-6	2-Methylnaphthalene	0.476	0.048	mg/l	
91-20-3	Naphthalene	5.58 [b]	0.19	mg/l	
85-01-8	Phenanthrene	0.161	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [c]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	0% [c]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	0% [c]	0% [c]	39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30A (031218)		
Lab Sample ID:	FA52404-1	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14755
(2) Prep QC Batch: MP33469

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-30B (031218)		
Lab Sample ID:	FA52404-2	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6667.D	1	03/15/18 17:33	SO	n/a	n/a	V5E270
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B (031218)
Lab Sample ID: FA52404-2 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059264.D	1	03/16/18 22:22	MV	03/16/18 08:30	OP69203	SX2481
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	59%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-30B (031218)
Lab Sample ID: FA52404-2 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01782.D	1	03/27/18 18:23	FS	03/16/18 08:30	OP69204	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0058	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	79%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-30B (031218)		
Lab Sample ID:	FA52404-2	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0050	0.0050	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14755
(2) Prep QC Batch: MP33469

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-30B (031218)
Lab Sample ID: FA52404-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/12/18
Date Received: 03/13/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14755
(2) Prep QC Batch: MP33469

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-5D (031218)
Lab Sample ID: FA52404-3 **Date Sampled:** 03/12/18
Matrix: AQ - Ground Water **Date Received:** 03/13/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6668.D	1	03/15/18 17:57	SO	n/a	n/a	V5E270
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (031218)		
Lab Sample ID:	FA52404-3	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000603.D	1	03/20/18 20:08	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000636.D	1	03/23/18 19:56	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%	28%	14-67%
4165-62-2	Phenol-d5	12%	17%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	99%	33-118%
4165-60-0	Nitrobenzene-d5	66%	77%	42-108%
321-60-8	2-Fluorobiphenyl	68%	78%	40-106%
1718-51-0	Terphenyl-d14	27% [c]	88%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (031218)		
Lab Sample ID:	FA52404-3	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G01803.D	2	03/28/18 11:58	FS	03/16/18 08:30	OP69204	S7G81
Run #2 [b]	7G01804.D	2	03/28/18 12:22	FS	03/22/18 12:45	OP69352	S7G81
Run #3 [b]	7G01821.D	4	03/28/18 19:05	FS	03/22/18 12:45	OP69352	S7G81

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml
Run #3	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0019	mg/l	
83-32-9	Acenaphthene	ND	0.0019	mg/l	
208-96-8	Acenaphthylene	ND	0.0019	mg/l	
120-12-7	Anthracene	ND	0.0019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00038	mg/l	
218-01-9	Chrysene	ND	0.00038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00038	mg/l	
206-44-0	Fluoranthene	ND	0.0019	mg/l	
86-73-7	Fluorene	ND	0.0019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00038	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0019	mg/l	
91-20-3	Naphthalene	0.0661	0.0019	mg/l	
85-01-8	Phenanthrene	ND	0.0019	mg/l	
129-00-0	Pyrene	ND	0.0019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	92% [c]	102% [c]	59% [c]	33-118%
4165-60-0	Nitrobenzene-d5	76% [c]	81% [c]	65% [c]	42-108%
321-60-8	2-Fluorobiphenyl	80% [c]	85% [c]	64% [c]	40-106%
1718-51-0	Terphenyl-d14	30% [d]	94% [c]	75% [c]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Surrogate recoveries corrected for actual spike amount.
(d) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5D (031218)		
Lab Sample ID:	FA52404-3	**Date Sampled:**	03/12/18
Matrix:	AQ - Ground Water	**Date Received:**	03/13/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/19/18	03/19/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14755
(2) Prep QC Batch: MP33469

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52404

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 1

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St, Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: _____
- [ ] EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOC 8270 (Low Level)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
1	MW-30A (031218)	6	3-12-18	1450	CS	N	Grab		X	X	X			
2	MW-30B (031218)	7	3-12-18	1555	CS	N	Grab		X	X	X	X		
3	MW-51 (031218)	6	3-12-18	1550	RW	N	Grab		X	X	X			
4	TB-1 (031218)	1	3-12-18											

Relinquished By:	Date Time:	Received By: FX	Date Time:
Relinquished By: FX	Date Time: 03/13/2018/9:30	Received By: [illegible]	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:

Comments & Special Analytical Requirements:
- See Table for site COCs
- Dissolved Metal Filter & preserve (1L Amber)
~~Provide Trans~~

Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal # ; LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.6

5.1 5

SGS Sample Receipt Summary

Job Number: FA52404 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/13/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 813015085699

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/13/2018 9:30:00 AM Reviewer: AR Date: 3/13/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52419

Sampling Date: 03/13/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52419

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52419-1	03/13/18	15:10	RW	03/14/18	AQ	Ground Water	MW-38A (031318)
FA52419-2	03/13/18	14:30	RW	03/14/18	AQ	Ground Water	MW-38B (031318)
FA52419-3	03/13/18	16:50	RW	03/14/18	AQ	Ground Water	MW-25A (031318)
FA52419-3F	03/13/18	16:50	RW	03/14/18	AQ	Groundwater Filtered	MW-25A (031318)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52419

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:19:19

3 Sample(s) were collected on 03/13/2018 and were received at SGS North America Inc - Orlando on 03/14/2018 properly preserved, at 3.2 Deg. C and intact. These Samples received an SGS Orlando job number of FA52419. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5843

FA52419-1: Confirmation run.

Matrix: AQ **Batch ID:** VO1934

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52449-1MS, FA52449-1MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for Benzene are outside control limits for sample FA52449-1MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA52449-1MS, FA52449-1MSD have surrogates outside control limits.

Matrix: AQ **Batch ID:** VO1938

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52406-12MS, FA52406-12MSD were used as the QC samples indicated.

VO1938-MB for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.
VO1938-MB for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.
VO1938-MB for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.
VO1938-MB for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.
VO1938-BS for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.
VO1938-BS for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.
VO1938-BS for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.
VO1938-BS for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

FA52419-2 for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

FA52419-2 for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

FA52419-2 for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

FA52419-2 for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52419-1, FA52419-2, FA52419-3 have surrogates outside control limits.

FA52419-1 for Terphenyl-d14: Outside control limits.

FA52419-1: Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.

FA52419-2 for Phenol-d5: Outside control limits.

FA52419-2 for 2-Fluorophenol: Outside control limits.

FA52419-2: Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.

FA52419-3: All hits confirmed by re-extraction and reanalysis beyond hold-time.

FA52419-2 for Terphenyl-d14: Outside control limits.

FA52419-3 for Terphenyl-d14: Outside control limits.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69297

FA52419-1: Confirmation run for surrogate recoveries.

FA52419-2: Confirmation run for surrogate recoveries.

FA52419-3: Confirmation run for surrogate recoveries.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene, 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pentachlorophenol, Phenanthrene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52419-1, FA52419-2, FA52419-3, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52419-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52419-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52419-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52419-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52419-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52419-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52419-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52419-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52419-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52419-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52419-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52419-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52419-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52419-2 for Terphenyl-d14: Outside control limits due to dilution.

FA52419-2 for Terphenyl-d14: Outside control limits due to dilution.

FA52419-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52419-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52419-2 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52419-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52419-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52419-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52419-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33473

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52422-2FDUP, FA52422-2FMS, FA52422-2FMSD, FA52422-2FPS, FA52422-2FSDL were used as the QC samples for metals.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52419
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/13/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52419-1	**MW-38A (031318)**					
Benzene		0.0701	0.010		mg/l	SW846 8260B
Toluene		0.0126	0.010		mg/l	SW846 8260B
Ethylbenzene		0.109	0.010		mg/l	SW846 8260B
Xylene (total)		0.224	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0648	0.020		mg/l	SW846 8270D
Carbazole [a]		0.275	0.020		mg/l	SW846 8270D
Dibenzofuran [a]		0.207	0.020		mg/l	SW846 8270D
Acenaphthene		0.309	0.050		mg/l	SW846 8270D BY SIM
Fluorene		0.151	0.050		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.225	0.050		mg/l	SW846 8270D BY SIM
Naphthalene		6.05	0.20		mg/l	SW846 8270D BY SIM
Phenanthrene		0.108	0.050		mg/l	SW846 8270D BY SIM
FA52419-2	**MW-38B (031318)**					
Benzene		0.0603	0.010		mg/l	SW846 8260B
Toluene		0.0126	0.010		mg/l	SW846 8260B
Ethylbenzene		0.100	0.010		mg/l	SW846 8260B
Xylene (total)		0.201	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0399	0.019		mg/l	SW846 8270D
Carbazole [a]		0.207	0.019		mg/l	SW846 8270D
Dibenzofuran [a]		0.168	0.019		mg/l	SW846 8270D
Acenaphthene		0.355	0.048		mg/l	SW846 8270D BY SIM
Fluorene		0.174	0.048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.189	0.048		mg/l	SW846 8270D BY SIM
Naphthalene		3.78	0.096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.131	0.048		mg/l	SW846 8270D BY SIM
FA52419-3	**MW-25A (031318)**					
Benzene		0.0720	0.0050		mg/l	SW846 8260B
Toluene		0.0351	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0202	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0437	0.015		mg/l	SW846 8260B
2,4-Dichlorophenol [b]		0.0052	0.0048		mg/l	SW846 8270D
2,4-Dimethylphenol [b]		0.0255	0.0048		mg/l	SW846 8270D
Carbazole [b]		0.0327	0.0048		mg/l	SW846 8270D
Dibenzofuran [b]		0.0371	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0736	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.0337	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0233	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.689	0.019		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA52419
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/13/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA52419-3F **MW-25A (031318)**

No hits reported in this sample.

(a) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.
(b) All hits confirmed by re-extraction and reanalysis beyond holdtime.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-38A (031318)
Lab Sample ID: FA52419-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51531.D	2	03/15/18 14:07	SP	n/a	n/a	VO1934
Run #2 [a]	J0989845.D	2	03/19/18 12:04	SP	n/a	n/a	VJ5843

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0701	0.010	mg/l	
108-88-3	Toluene	0.0126	0.010	mg/l	
100-41-4	Ethylbenzene	0.109	0.010	mg/l	
1330-20-7	Xylene (total)	0.224	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	93%	79-125%
2037-26-5	Toluene-D8	104%	100%	85-112%
460-00-4	4-Bromofluorobenzene	87%	99%	83-118%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (031318)		
Lab Sample ID:	FA52419-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000605.D	4	03/20/18 20:58	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000637.D	5	03/23/18 20:21	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.020	mg/l	
105-67-9	2,4-Dimethylphenol	0.0648	0.020	mg/l	
95-48-7	2-Methylphenol	ND	0.020	mg/l	
	3&4-Methylphenol	ND	0.020	mg/l	
108-95-2	Phenol	ND	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.020	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.020	mg/l	
86-74-8	Carbazole	0.275	0.020	mg/l	
132-64-9	Dibenzofuran	0.207	0.020	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%	33%	14-67%
4165-62-2	Phenol-d5	11%	22%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	86%	33-118%
4165-60-0	Nitrobenzene-d5	99%	66%	42-108%
321-60-8	2-Fluorobiphenyl	81%	65%	40-106%
1718-51-0	Terphenyl-d14	25% [c]	81%	39-121%

(a) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (031318)		
Lab Sample ID:	FA52419-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3608.D	50	03/23/18 20:16	FS	03/16/18 08:30	OP69204	S4D135
Run #2	4D3651.D	200	03/27/18 04:17	NJ	03/16/18 08:30	OP69204	S4D137

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1010 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.050	mg/l	
83-32-9	Acenaphthene	0.309	0.050	mg/l	
208-96-8	Acenaphthylene	ND	0.050	mg/l	
120-12-7	Anthracene	ND	0.050	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0099	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.0099	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0099	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0099	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0099	mg/l	
218-01-9	Chrysene	ND	0.0099	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0099	mg/l	
206-44-0	Fluoranthene	ND	0.050	mg/l	
86-73-7	Fluorene	0.151	0.050	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0099	mg/l	
91-57-6	2-Methylnaphthalene	0.225	0.050	mg/l	
91-20-3	Naphthalene	6.05 [b]	0.20	mg/l	
85-01-8	Phenanthrene	0.108	0.050	mg/l	
129-00-0	Pyrene	ND	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [c]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	0% [c]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	0% [c]	0% [c]	39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38A (031318)		
Lab Sample ID:	FA52419-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-38B (031318)
Lab Sample ID: FA52419-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51606.D	2	03/16/18 18:58	SP	n/a	n/a	VO1938
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0603	0.010	mg/l	
108-88-3	Toluene	0.0126	0.010	mg/l	
100-41-4	Ethylbenzene	0.100	0.010	mg/l	
1330-20-7	Xylene (total)	0.201	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100% [a]		83-118%
17060-07-0	1,2-Dichloroethane-D4	98% [a]		79-125%
2037-26-5	Toluene-D8	104% [a]		85-112%
460-00-4	4-Bromofluorobenzene	88% [a]		83-118%

(a) Surrogate recoveries corrected for actual spiked amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (031318)		
Lab Sample ID:	FA52419-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000607.D	4	03/20/18 21:48	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000638.D	4	03/23/18 20:46	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.019	mg/l	
105-67-9	2,4-Dimethylphenol	0.0399	0.019	mg/l	
95-48-7	2-Methylphenol	ND	0.019	mg/l	
	3&4-Methylphenol	ND	0.019	mg/l	
108-95-2	Phenol	ND	0.019	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.019	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.019	mg/l	
86-74-8	Carbazole	0.207	0.019	mg/l	
132-64-9	Dibenzofuran	0.168	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	13% [c]	36%	14-67%
4165-62-2	Phenol-d5	9% [c]	24%	10-50%
118-79-6	2,4,6-Tribromophenol	53%	106%	33-118%
4165-60-0	Nitrobenzene-d5	74%	100%	42-108%
321-60-8	2-Fluorobiphenyl	66%	83%	40-106%
1718-51-0	Terphenyl-d14	12% [c]	87%	39-121%

(a) Dilution required due to matrix interference. Confirmed by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38B (031318)
Lab Sample ID: FA52419-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3609.D	50	03/23/18 20:48	FS	03/16/18 08:30	OP69204	S4D135
Run #2	4D3652.D	100	03/27/18 04:49	NJ	03/16/18 08:30	OP69204	S4D137

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.048	mg/l	
83-32-9	Acenaphthene	0.355	0.048	mg/l	
208-96-8	Acenaphthylene	ND	0.048	mg/l	
120-12-7	Anthracene	ND	0.048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0096	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.0096	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0096	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0096	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0096	mg/l	
218-01-9	Chrysene	ND	0.0096	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0096	mg/l	
206-44-0	Fluoranthene	ND	0.048	mg/l	
86-73-7	Fluorene	0.174	0.048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0096	mg/l	
91-57-6	2-Methylnaphthalene	0.189	0.048	mg/l	
91-20-3	Naphthalene	3.78 [b]	0.096	mg/l	
85-01-8	Phenanthrene	0.131	0.048	mg/l	
129-00-0	Pyrene	ND	0.048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [c]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	0% [c]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	0% [c]	0% [c]	39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38B (031318)		
Lab Sample ID:	FA52419-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (031318)
Lab Sample ID:	FA52419-3
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/13/18
Date Received:	03/14/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51533.D	1	03/15/18 14:49	SP	n/a	n/a	VO1934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0720	0.0050	mg/l	
108-88-3	Toluene	0.0351	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0202	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0437	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (031318)		
Lab Sample ID:	FA52419-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000608.D	1	03/20/18 22:14	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000639.D	1	03/23/18 21:11	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	0.0052	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0255	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0327	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0371	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%	31%	14-67%
4165-62-2	Phenol-d5	14%	19%	10-50%
118-79-6	2,4,6-Tribromophenol	84%	113%	33-118%
4165-60-0	Nitrobenzene-d5	80%	89%	42-108%
321-60-8	2-Fluorobiphenyl	78%	83%	40-106%
1718-51-0	Terphenyl-d14	19% [c]	83%	39-121%

(a) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-25A (031318)
Lab Sample ID: FA52419-3 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01784.D	20	03/27/18 19:10	FS	03/16/18 08:30	OP69204	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.0736	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	0.0337	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0233	0.019	mg/l	
91-20-3	Naphthalene	0.689	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-25A (031318)		
Lab Sample ID:	FA52419-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-25A (031318)		
Lab Sample ID:	FA52419-3F	**Date Sampled:**	03/13/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # 1 of 1 FA52419

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fed ex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN CREOSOTE	Proj. City: Bloomington	Address: 150 W. Market St. 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN 46204	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax:

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☒ Other Deliv: Data CD
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCS 8270 (SIM only)	Total Metals 6010	Dissolved Metals 6010	Note Pres. Code	COMMENTS	LAB USE
MW-38A (031318) 1	6	3/13/18	1510	RJW	N	Grab		X	X	X				
MW-38B (031318) 2	6	3/13/18	1430	RJW	N	Grab		X	X	X				
MW-25A (031318) 3	7	3/13/18	1650	RJW	N	Grab		X	X	X	X			
TB-1 (031318) 4	1													
SP 03/14/18														

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Riley White / Arcadis	3/13/18 1700	Fed Ex	
2	Fed Ex			
3				
Received By Laboratory:		Date Time: 03/14/18 945	Lab Remarks:	

Comments & Special Analytical Requirements:
- See table 1 for site COCs
- Dissolved metals - lab filter preserve (1L Amber)

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # # | LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES | Rev. 5/21/02 | 3.2 | INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52419: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52419 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/14/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1015923861960003281100780041416327

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 1

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/14/2018 9:45:00 AM Reviewer: _____ Date: _____

FA52419: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52420

Sampling Date: 03/13/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **23**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52420

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52420-1	03/13/18	10:35	CS	03/14/18	AQ	Ground Water	MW-55A (031318)
FA52420-2	03/13/18	11:40	CS	03/14/18	AQ	Ground Water	MW-8D (031318)
FA52420-3	03/13/18	13:10	CS	03/14/18	AQ	Ground Water	MW-55 (031318)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52420

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:41:45

3 Sample(s) were collected on 03/13/2018 and were received at SGS North America Inc - Orlando on 03/14/2018 properly preserved, at 3 Deg. C and intact. These Samples received an SGS Orlando job number of FA52420. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1934

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52449-1MS, FA52449-1MSD were used as the QC samples indicated.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for Benzene are outside control limits for sample FA52449-1MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA52449-1MS, FA52449-1MSD have surrogates outside control limits. Probable cause is due to matrix

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52420-1, FA52420-2, FA52420-3 have surrogates outside control limits.

FA52420-1: Confirmed ND by re-extraction and reanalysis.

FA52420-1 for Terphenyl-d14: Outside control limits.

FA52420-2 for Terphenyl-d14: Outside control limits.

FA52420-2 for Terphenyl-d14: Outside control limits.

FA52420-2: All hits confirmed by re-extraction and reanalysis beyond holdtime.

FA52420-3: Confirmed ND by re-extraction and reanalysis.

FA52420-3 for Terphenyl-d14: Outside control limits.

Matrix: AQ **Batch ID:** OP69297

FA52420-1: Confirmation run for surrogate recoveries.

FA52420-2: Confirmation run for surrogate recoveries.

FA52420-3: Confirmation run for surrogate recoveries.

FA52420-2: Confirmation run for surrogate recoveries.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52420-1, FA52420-2, FA52420-3, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52420-1: Confirmed by re-extraction and reanalysis.

FA52420-2 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52420-2 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52420-2 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52420-2 for Terphenyl-d14: Outside control limits due to dilution.

FA52420-2 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52420-3: Confirmed by re-extraction and reanalysis.

FA52420-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** OP69352

FA52420-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52420-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52420-1: Confirmation run.

FA52420-3: Confirmation run.

FA52420-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52420-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33473

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52422-2FDUP, FA52422-2FMS, FA52422-2FMSD, FA52422-2FPS, FA52422-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP33474

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52454-6DUP, FA52454-6MS, FA52454-6MSD, FA52454-6PS, FA52454-6SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33474-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA52420-3 for Arsenic: Sample dilution required due to difficult matrix.

FA52420-3 for Lead: Sample dilution required due to difficult matrix.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52420
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/13/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52420-1	**MW-55A (031318)**					
Naphthalene [a]		0.0017	0.00097		mg/l	SW846 8270D BY SIM
FA52420-2	**MW-8D (031318)**					
Benzene		0.0358	0.0050		mg/l	SW846 8260B
Toluene		0.0343	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0215	0.0050		mg/l	SW846 8260B
Xylene (total)		0.158	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [b]		0.0566	0.0049		mg/l	SW846 8270D
Carbazole		0.191	0.019		mg/l	SW846 8270D
Dibenzofuran		0.151	0.019		mg/l	SW846 8270D
Acenaphthene		0.226	0.049		mg/l	SW846 8270D BY SIM
Fluorene		0.122	0.049		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.201	0.049		mg/l	SW846 8270D BY SIM
Naphthalene		1.85	0.049		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0980	0.049		mg/l	SW846 8270D BY SIM
Lead		0.0057	0.0050		mg/l	SW846 6010C
FA52420-3	**MW-55 (031318)**					
Naphthalene [a]		0.0014	0.00099		mg/l	SW846 8270D BY SIM
Lead [c]		0.161	0.025		mg/l	SW846 6010C

(a) Confirmed by re-extraction and reanalysis.
(b) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(c) Sample dilution required due to difficult matrix.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-55A (031318)
Lab Sample ID: FA52420-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51534.D	1	03/15/18 15:09	SP	n/a	n/a	VO1934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (031318)
Lab Sample ID: FA52420-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000609.D	1	03/20/18 22:39	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000640.D	1	03/23/18 21:36	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%	26%	14-67%
4165-62-2	Phenol-d5	10%	17%	10-50%
118-79-6	2,4,6-Tribromophenol	58%	99%	33-118%
4165-60-0	Nitrobenzene-d5	60%	71%	42-108%
321-60-8	2-Fluorobiphenyl	62%	72%	40-106%
1718-51-0	Terphenyl-d14	15% [c]	89%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (031318)
Lab Sample ID: FA52420-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D3611.D	1	03/23/18 21:51	FS	03/16/18 08:30	OP69204	S4D135
Run #2 [b]	7G01777.D	1	03/27/18 16:25	FS	03/22/18 12:45	OP69352	S7G80

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene [c]	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0017	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	47% [d]	88% [d]	33-118%
4165-60-0	Nitrobenzene-d5	51% [d]	71% [d]	42-108%
321-60-8	2-Fluorobiphenyl	50% [d]	66% [d]	40-106%
1718-51-0	Terphenyl-d14	12% [e]	86% [d]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Surrogate recoveries corrected for actual spike amount.
(e) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55A (031318)
Lab Sample ID: FA52420-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/13/18
Date Received: 03/14/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8D (031318)
Lab Sample ID: FA52420-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51535.D	1	03/15/18 15:30	SP	n/a	n/a	VO1934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0358	0.0050	mg/l	
108-88-3	Toluene	0.0343	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0215	0.0050	mg/l	
1330-20-7	Xylene (total)	0.158	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (031318)		
Lab Sample ID:	FA52420-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000610.D	1	03/20/18 23:04	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000641.D	1	03/23/18 22:01	MV	03/22/18 13:45	OP69297	S9I26
Run #3	9I000611.D	4	03/20/18 23:29	MV	03/16/18 08:30	OP69203	S9I25
Run #4 [b]	9I000642.D	4	03/23/18 22:26	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml
Run #3	1030 ml	1.0 ml
Run #4	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	0.0566	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.191 [c]	0.019	mg/l	
132-64-9	Dibenzofuran	0.151 [c]	0.019	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	16%	24%	16%	14-67%
4165-62-2	Phenol-d5	11%	15%	11%	10-50%
118-79-6	2,4,6-Tribromophenol	64%	91%	67%	33-118%
4165-60-0	Nitrobenzene-d5	89%	105%	64%	42-108%
321-60-8	2-Fluorobiphenyl	65%	75%	68%	40-106%
1718-51-0	Terphenyl-d14	12% [d]	71%	12% [d]	39-121%

(a) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries.
(c) Result is from Run# 3
(d) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (031318)		
Lab Sample ID:	FA52420-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3612.D	50	03/23/18 22:22	FS	03/16/18 08:30	OP69204	S4D135
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.049	mg/l	
83-32-9	Acenaphthene	0.226	0.049	mg/l	
208-96-8	Acenaphthylene	ND	0.049	mg/l	
120-12-7	Anthracene	ND	0.049	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0097	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.0097	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0097	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0097	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0097	mg/l	
218-01-9	Chrysene	ND	0.0097	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0097	mg/l	
206-44-0	Fluoranthene	ND	0.049	mg/l	
86-73-7	Fluorene	0.122	0.049	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0097	mg/l	
91-57-6	2-Methylnaphthalene	0.201	0.049	mg/l	
91-20-3	Naphthalene	1.85	0.049	mg/l	
85-01-8	Phenanthrene	0.0980	0.049	mg/l	
129-00-0	Pyrene	ND	0.049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8D (031318)		
Lab Sample ID:	FA52420-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0057	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-55 (031318)
Lab Sample ID: FA52420-3 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51536.D	1	03/15/18 15:51	SP	n/a	n/a	VO1934
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55 (031318)		
Lab Sample ID:	FA52420-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000612.D	1	03/20/18 23:54	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000643.D	1	03/23/18 22:51	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%	39%	14-67%
4165-62-2	Phenol-d5	12%	28%	10-50%
118-79-6	2,4,6-Tribromophenol	65%	93%	33-118%
4165-60-0	Nitrobenzene-d5	65%	73%	42-108%
321-60-8	2-Fluorobiphenyl	66%	75%	40-106%
1718-51-0	Terphenyl-d14	16% [c]	78%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55 (031318)
Lab Sample ID: FA52420-3 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D3613.D	1	03/23/18 22:54	FS	03/16/18 08:30	OP69204	S4D135
Run #2 [b]	7G01778.D	1	03/27/18 16:49	FS	03/22/18 12:45	OP69352	S7G80

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00099	mg/l	
83-32-9	Acenaphthene	ND	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene [c]	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00099	mg/l	
91-20-3	Naphthalene	0.0014	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	55% [d]	81% [d]	33-118%
4165-60-0	Nitrobenzene-d5	55% [d]	76% [d]	42-108%
321-60-8	2-Fluorobiphenyl	55% [d]	72% [d]	40-106%
1718-51-0	Terphenyl-d14	13% [e]	75% [d]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Surrogate recoveries corrected for actual spike amount.
(e) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55 (031318)		
Lab Sample ID:	FA52420-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	< 0.050	0.050	mg/l	5	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead [a]	0.161	0.025	mg/l	5	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

(a) Sample dilution required due to difficult matrix.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52420

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fed-Ex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN CREOSOTE	Proj. City: Bloomington	Address: 150 W. Market St. Ste 728	PM: Randall Woodruff
CSXT Contact:	LWON: ENV53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (Site Specific)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
MW-55A (031318) 1	7	3-13-18	1035	CS	N	Grab		X	X	X	X		
MW-8D (031318) 2	7	3-13-18	1140	CS	N	Grab		X	X	X	X		
MW-55 (031318) 3	7	3-13-18	1310	CS	N	Grab		X	X	X	X		
TB-1 (031318)	1	3-13-18											

	Date Time:	Received By:	Date Time:
Relinquished By:		Fed Ex	
Relinquished By: Fed Ex			
Relinquished By:			
Received By Laboratory:	03/14/18 945	Lab Remarks:	

Comments & Special Analytical Requirements:
- See Table for site COCs
- Dissolved Metal filter & preserve (1L amber)

LAB USE: ☐ Custody Intact Yes ☐ No | Custody Seal # | LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 3.0 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52420: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52420 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/14/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1015923861960003281100780041416327

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/14/2018 9:45:00 AM Reviewer: _____ Date: _____

FA52420: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52421

Sampling Date: 03/13/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 22

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52421

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52421-1	03/13/18	10:40	RW	03/14/18	AQ	Ground Water	MW-55B (031318)
FA52421-1F	03/13/18	10:40	RW	03/14/18	AQ	Groundwater Filtered	MW-55B (031318)
FA52421-2	03/13/18	11:50	RW	03/14/18	AQ	Ground Water	MW-18D (031318)
FA52421-3	03/13/18	12:45	RW	03/14/18	AQ	Ground Water	MW-18S (031318)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52421

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 12:19:27

3 Sample(s) were collected on 03/13/2018 and were received at SGS North America Inc - Orlando on 03/14/2018 properly preserved, at 3 Deg. C and intact. These Samples received an SGS Orlando job number of FA52421. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1938

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52406-12MS, FA52406-12MSD were used as the QC samples indicated.

VO1938-MB for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

VO1938-MB for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

VO1938-MB for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

VO1938-MB for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

VO1938-BS for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

VO1938-BS for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

VO1938-BS for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

VO1938-BS for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

FA52421-1 for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

FA52421-1 for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

FA52421-1 for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

FA52421-1 for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

FA52421-2 for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

FA52421-2 for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

FA52421-2 for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

FA52421-2 for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

FA52421-3 for 4-Bromofluorobenzene: Surrogate recoveries corrected for actual spiked amount.

FA52421-3 for Toluene-D8: Surrogate recoveries corrected for actual spiked amount.

FA52421-3 for 1,2-Dichloroethane-D4: Surrogate recoveries corrected for actual spiked amount.

FA52421-3 for Dibromofluoromethane: Surrogate recoveries corrected for actual spiked amount.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52421-1, FA52421-2 have surrogates outside control limits.

FA52421-1: All hits confirmed by re-extraction and reanalysis beyond holdtime.

FA52421-1 for Terphenyl-d14: Outside control limits.

FA52421-1 for Terphenyl-d14: Outside control limits.

FA52421-2: Confirmed ND by re-extraction and reanalysis.

FA52421-2 for Terphenyl-d14: Outside control limits.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69297

FA52421-1: Confirmation run for surrogate recoveries.

FA52421-2: Confirmation run for surrogate recoveries.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52421-1, FA52421-2, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52421-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52421-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52421-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52421-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52421-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52421-2: Confirmed by re-extraction and reanalysis.

FA52421-2 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52421-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52421-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52421-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP69352

FA52421-2: Confirmation run.

FA52421-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52421-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52421-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52421-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33473

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52422-2FDUP, FA52422-2FMS, FA52422-2FMSD, FA52422-2FPS, FA52422-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP33474

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52454-6DUP, FA52454-6MS, FA52454-6MSD, FA52454-6PS, FA52454-6SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33474-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52421
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/13/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52421-1	**MW-55B (031318)**					
Benzene		0.0702	0.013		mg/l	SW846 8260B
Toluene		0.0220	0.013		mg/l	SW846 8260B
Ethylbenzene		0.0397	0.013		mg/l	SW846 8260B
Xylene (total)		0.0933	0.038		mg/l	SW846 8260B
2,4-Dimethylphenol		0.164	0.020		mg/l	SW846 8270D
2-Methylphenol [a]		0.0192	0.0049		mg/l	SW846 8270D
3&4-Methylphenol [a]		0.0081	0.0049		mg/l	SW846 8270D
Carbazole [a]		0.0645	0.0049		mg/l	SW846 8270D
Dibenzofuran [a]		0.0462	0.0049		mg/l	SW846 8270D
Acenaphthene		0.0879	0.049		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.146	0.049		mg/l	SW846 8270D BY SIM
Naphthalene		1.83	0.049		mg/l	SW846 8270D BY SIM
FA52421-1F	**MW-55B (031318)**					
No hits reported in this sample.						
FA52421-2	**MW-18D (031318)**					
Acenaphthene [b]		0.0013	0.0010		mg/l	SW846 8270D BY SIM
FA52421-3	**MW-18S (031318)**					
No hits reported in this sample.						

(a) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmed by re-extraction and reanalysis.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-55B (031318)
Lab Sample ID: FA52421-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51607.D	2.5	03/16/18 19:18	SP	n/a	n/a	VO1938
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0702	0.013	mg/l	
108-88-3	Toluene	0.0220	0.013	mg/l	
100-41-4	Ethylbenzene	0.0397	0.013	mg/l	
1330-20-7	Xylene (total)	0.0933	0.038	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100% [a]		83-118%
17060-07-0	1,2-Dichloroethane-D4	98% [a]		79-125%
2037-26-5	Toluene-D8	104% [a]		85-112%
460-00-4	4-Bromofluorobenzene	96% [a]		83-118%

(a) Surrogate recoveries corrected for actual spiked amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55B (031318)
Lab Sample ID: FA52421-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000613.D	1	03/21/18 00:20	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000644.D	1	03/23/18 23:16	MV	03/22/18 13:45	OP69297	S9I26
Run #3	9I000614.D	4	03/21/18 00:45	MV	03/16/18 08:30	OP69203	S9I25
Run #4 [b]	9I000645.D	4	03/23/18 23:41	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1050 ml	1.0 ml
Run #3	1020 ml	1.0 ml
Run #4	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	0.164 [c]	0.020	mg/l	
95-48-7	2-Methylphenol	0.0192	0.0049	mg/l	
	3&4-Methylphenol	0.0081	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.0645	0.0049	mg/l	
132-64-9	Dibenzofuran	0.0462	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	17%	28%	19%	14-67%
4165-62-2	Phenol-d5	12%	18%	12%	10-50%
118-79-6	2,4,6-Tribromophenol	77%	100%	86%	33-118%
4165-60-0	Nitrobenzene-d5	85%	96%	69%	42-108%
321-60-8	2-Fluorobiphenyl	64%	73%	74%	40-106%
1718-51-0	Terphenyl-d14	18% [d]	76%	20% [d]	39-121%

(a) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries.
(c) Result is from Run# 3
(d) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-55B (031318)
Lab Sample ID: FA52421-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3614.D	50	03/23/18 23:25	FS	03/16/18 08:30	OP69204	S4D135
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.049	mg/l	
83-32-9	Acenaphthene	0.0879	0.049	mg/l	
208-96-8	Acenaphthylene	ND	0.049	mg/l	
120-12-7	Anthracene	ND	0.049	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0098	mg/l	
50-32-8	Benzo(a)pyrene [a]	ND	0.0098	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0098	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0098	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0098	mg/l	
218-01-9	Chrysene	ND	0.0098	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0098	mg/l	
206-44-0	Fluoranthene	ND	0.049	mg/l	
86-73-7	Fluorene	ND	0.049	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0098	mg/l	
91-57-6	2-Methylnaphthalene	0.146	0.049	mg/l	
91-20-3	Naphthalene	1.83	0.049	mg/l	
85-01-8	Phenanthrene	ND	0.049	mg/l	
129-00-0	Pyrene	ND	0.049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]		33-118%
4165-60-0	Nitrobenzene-d5	0% [b]		42-108%
321-60-8	2-Fluorobiphenyl	0% [b]		40-106%
1718-51-0	Terphenyl-d14	0% [b]		39-121%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-55B (031318)		
Lab Sample ID:	FA52421-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-55B (031318)		
Lab Sample ID:	FA52421-1F	**Date Sampled:**	03/13/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-18D (031318)
Lab Sample ID: FA52421-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51608.D	1	03/16/18 19:39	SP	n/a	n/a	VO1938
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100% [a]		83-118%
17060-07-0	1,2-Dichloroethane-D4	96% [a]		79-125%
2037-26-5	Toluene-D8	106% [a]		85-112%
460-00-4	4-Bromofluorobenzene	102% [a]		83-118%

(a) Surrogate recoveries corrected for actual spiked amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18D (031318)		
Lab Sample ID:	FA52421-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000615.D	1	03/21/18 01:10	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000646.D	1	03/24/18 00:06	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%	26%	14-67%
4165-62-2	Phenol-d5	11%	17%	10-50%
118-79-6	2,4,6-Tribromophenol	52%	87%	33-118%
4165-60-0	Nitrobenzene-d5	60%	67%	42-108%
321-60-8	2-Fluorobiphenyl	62%	69%	40-106%
1718-51-0	Terphenyl-d14	14% [c]	78%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-18D (031318)
Lab Sample ID: FA52421-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D3615.D	1	03/23/18 23:56	FS	03/16/18 08:30	OP69204	S4D135
Run #2 [b]	7G01779.D	1	03/27/18 17:13	FS	03/22/18 12:45	OP69352	S7G80

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0013	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene [c]	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	45% [d]	80% [d]	33-118%
4165-60-0	Nitrobenzene-d5	55% [d]	69% [d]	42-108%
321-60-8	2-Fluorobiphenyl	54% [d]	67% [d]	40-106%
1718-51-0	Terphenyl-d14	12% [e]	78% [d]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Surrogate recoveries corrected for actual spike amount.
(e) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-18D (031318)
Lab Sample ID: FA52421-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/13/18
Date Received: 03/14/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-18S (031318)		
Lab Sample ID:	FA52421-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51609.D	1	03/16/18 20:00	SP	n/a	n/a	VO1938
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100% [a]		83-118%
17060-07-0	1,2-Dichloroethane-D4	96% [a]		79-125%
2037-26-5	Toluene-D8	106% [a]		85-112%
460-00-4	4-Bromofluorobenzene	98% [a]		83-118%

(a) Surrogate recoveries corrected for actual spiked amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18S (031318)		
Lab Sample ID:	FA52421-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52421

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fedex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077-00001
CSXT Project Name: IN CREOSOTE	Proj. City: Bloomington	Address: 150 N. Market Street 728	PM: Randall Woodruff
CSXT Contact: DAN DYER	LWON: ENV 53216	City, State, Zip: Indianapolis, IN 46204	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6560 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☒ Other Deliv: Data CD only
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCS 8270 (SIM only)	Total metals (6010)	Dissolved Metals (6010)	COMMENTS	LAB USE
MW-55B(031318) 1	7	3/13/18	1040	RW	N	Grab		X	X	X	X		
MW-18D(031318) 2	6	3/13/18	1150	RW	N	Grab		X	X	X			
MW-18S(031318) 3	4	3/13/18	1245	RW	N	Grab		X		X		Dried well, only took 4 samples	
TB-1(031318)	1	3/13/18	—										

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Kelly White/Arcadis	3/13/18 1700	Fed Ex	
2	Fed Ex			
3				
Received by Laboratory:		Date Time: 03/14/18 945	Lab Remarks:	

Comments & Special Analytical Requirements:
- See Table 1 for site COCs
- Dissolved metals - lab filter + preserve (1L Amber)

LAB USE: Custody Intact ☐ Yes ☐ No | Custody Seal # # | LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — (30) — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

SGS Sample Receipt Summary

Job Number: FA52421 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/14/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1015923861960003281100780041416327

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 1

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/14/2018 9:45:00 AM Reviewer: _____ Date: _____

FA52421: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52422

Sampling Date: 03/13/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52422

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52422-1	03/13/18	14:45	CS	03/14/18	AQ	Ground Water	MW-38C (031318)
FA52422-1F	03/13/18	14:45	CS	03/14/18	AQ	Groundwater Filtered	MW-38C (031318)
FA52422-2	03/13/18	15:35	CS	03/14/18	AQ	Ground Water	MW-38D (031318)
FA52422-2F	03/13/18	15:35	CS	03/14/18	AQ	Groundwater Filtered	MW-38D (031318)
FA52422-3	03/13/18	16:38	CS	03/14/18	AQ	Ground Water	MW-19D (031318)
FA52422-3F	03/13/18	16:38	CS	03/14/18	AQ	Groundwater Filtered	MW-19D (031318)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52422

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 12:28:36

3 Sample(s) were collected on 03/13/2018 and were received at SGS North America Inc - Orlando on 03/14/2018 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52422. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E271

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52437-2MS, FA52437-2MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69203

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Dibenzofuran are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA52422-1, FA52422-2, FA52422-3 have surrogates outside control limits.

FA52422-1: Confirmed ND by re-extraction and reanalysis.

FA52422-1 for Terphenyl-d14: Outside control limits.

FA52422-2: Confirmed ND by re-extraction and reanalysis.

FA52422-2 for Terphenyl-d14: Outside control limits.

FA52422-3: All hits confirmed by re-extraction and reanalysis beyond holdtime.

FA52422-3 for 2-Fluorophenol: Outside control limits.

FA52422-3 for Terphenyl-d14: Outside control limits.

FA52422-3 for 2-Fluorobiphenyl: Outside control limits.

FA52422-3 for Phenol-d5: Outside control limits.

FA52422-3 for 2,4,6-Tribromophenol: Outside control limits.

FA52422-3 for 2,4,6-Tribromophenol: Outside control limits.

FA52422-3 for 2-Fluorobiphenyl: Outside control limits.

FA52422-3 for 2-Fluorophenol: Outside control limits.

FA52422-3 for Phenol-d5: Outside control limits.

FA52422-3 for Terphenyl-d14: Outside control limits.

FA52422-3 for Nitrobenzene-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP69297

FA52422-1: Confirmation run for surrogate recoveries.

FA52422-2: Confirmation run for surrogate recoveries.

FA52422-3: Confirmation run for surrogate recoveries. Dilution required due to matrix interference (Internal Standard failure)

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69204

Matrix Spike Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pentachlorophenol, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Fluorene, Naphthalene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA52422-1, FA52422-2, FA52422-3, OP69204-MS, OP69204-MSD have surrogates outside control limits.

OP69204-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69204-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52422-1: Confirmed by re-extraction and reanalysis.

FA52422-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.

FA52422-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52422-2: Confirmed by re-extraction and reanalysis.

FA52422-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52422-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52422-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52422-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52422-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52422-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52422-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52422-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52422-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP69352

FA52422-1: Confirmation run.

FA52422-2: Confirmation run.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69352

FA52422-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52422-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52422-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33473

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52422-2FDUP, FA52422-2FMS, FA52422-2FMSD, FA52422-2FPS, FA52422-2FSDL were used as the QC samples for metals.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33474

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52454-6DUP, FA52454-6MS, FA52454-6MSD, FA52454-6PS, FA52454-6SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33474-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52422
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/13/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52422-1	**MW-38C (031318)**					
Naphthalene [a]		0.0014	0.0010		mg/l	SW846 8270D BY SIM
FA52422-1F	**MW-38C (031318)**					
No hits reported in this sample.						
FA52422-2	**MW-38D (031318)**					
Naphthalene [a]		0.0082	0.00097		mg/l	SW846 8270D BY SIM
FA52422-2F	**MW-38D (031318)**					
No hits reported in this sample.						
FA52422-3	**MW-19D (031318)**					
Benzene		0.108	0.025		mg/l	SW846 8260B
Toluene		0.228	0.025		mg/l	SW846 8260B
Ethylbenzene		0.0920	0.025		mg/l	SW846 8260B
Xylene (total)		0.389	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol		0.146	0.020		mg/l	SW846 8270D
2-Methylphenol [b]		0.0324	0.0050		mg/l	SW846 8270D
3&4-Methylphenol [b]		0.0241	0.0050		mg/l	SW846 8270D
Acenaphthene		0.209	0.050		mg/l	SW846 8270D BY SIM
Fluorene		0.107	0.050		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.347	0.050		mg/l	SW846 8270D BY SIM
Naphthalene		3.33	0.10		mg/l	SW846 8270D BY SIM
Phenanthrene		0.106	0.050		mg/l	SW846 8270D BY SIM
FA52422-3F	**MW-19D (031318)**					
No hits reported in this sample.						

(a) Confirmed by re-extraction and reanalysis.
(b) All hits confirmed by re-extraction and reanalysis beyond holdtime.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-38C (031318)
Lab Sample ID: FA52422-1 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6678.D	1	03/16/18 10:36	SO	n/a	n/a	V5E271
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (031318)		
Lab Sample ID:	FA52422-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000616.D	1	03/21/18 01:35	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000647.D	1	03/24/18 00:31	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	14%	32%	14-67%
4165-62-2	Phenol-d5	10%	20%	10-50%
118-79-6	2,4,6-Tribromophenol	52%	101%	33-118%
4165-60-0	Nitrobenzene-d5	58%	82%	42-108%
321-60-8	2-Fluorobiphenyl	60%	81%	40-106%
1718-51-0	Terphenyl-d14	15% [c]	91%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (031318)		
Lab Sample ID:	FA52422-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D3616.D	1	03/24/18 00:27	FS	03/16/18 08:30	OP69204	S4D135
Run #2 [b]	7G01780.D	1	03/27/18 17:36	FS	03/22/18 12:45	OP69352	S7G80

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene [c]	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0014	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	46% [d]	85% [d]	33-118%
4165-60-0	Nitrobenzene-d5	55% [d]	87% [d]	42-108%
321-60-8	2-Fluorobiphenyl	54% [d]	80% [d]	40-106%
1718-51-0	Terphenyl-d14	13% [e]	94% [d]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Surrogate recoveries corrected for actual spike amount.
(e) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38C (031318)		
Lab Sample ID:	FA52422-1	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38C (031318)		
Lab Sample ID:	FA52422-1F	**Date Sampled:**	03/13/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-38D (031318)
Lab Sample ID: FA52422-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6679.D	1	03/16/18 11:01	SO	n/a	n/a	V5E271
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38D (031318)
Lab Sample ID: FA52422-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000618.D	1	03/21/18 02:25	MV	03/16/18 08:30	OP69203	S9I25
Run #2 [b]	9I000648.D	1	03/24/18 00:56	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%	25%	14-67%
4165-62-2	Phenol-d5	12%	18%	10-50%
118-79-6	2,4,6-Tribromophenol	70%	96%	33-118%
4165-60-0	Nitrobenzene-d5	63%	66%	42-108%
321-60-8	2-Fluorobiphenyl	68%	72%	40-106%
1718-51-0	Terphenyl-d14	25% [c]	77%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-38D (031318)
Lab Sample ID: FA52422-2 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4D3617.D	1	03/24/18 00:58	FS	03/16/18 08:30	OP69204	S4D135
Run #2 [b]	7G01781.D	1	03/27/18 18:00	FS	03/22/18 12:45	OP69352	S7G80

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene [c]	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	0.0082	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	56% [d]	84% [d]	33-118%
4165-60-0	Nitrobenzene-d5	57% [d]	73% [d]	42-108%
321-60-8	2-Fluorobiphenyl	55% [d]	67% [d]	40-106%
1718-51-0	Terphenyl-d14	19% [e]	81% [d]	39-121%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Surrogate recoveries corrected for actual spike amount.
(e) Surrogate recoveries corrected for actual spike amount. Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-38D (031318)		
Lab Sample ID:	FA52422-2	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-38D (031318)		
Lab Sample ID:	FA52422-2F	**Date Sampled:**	03/13/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-19D (031318)
Lab Sample ID: FA52422-3 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6687.D	5	03/16/18 14:17	SO	n/a	n/a	V5E271
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.108	0.025	mg/l	
108-88-3	Toluene	0.228	0.025	mg/l	
100-41-4	Ethylbenzene	0.0920	0.025	mg/l	
1330-20-7	Xylene (total)	0.389	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19D (031318)		
Lab Sample ID:	FA52422-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000619.D	1	03/21/18 02:50	MV	03/16/18 08:30	OP69203	S9I25
Run #2	9I000620.D	4	03/21/18 03:15	MV	03/16/18 08:30	OP69203	S9I25
Run #3 [b]	9I000650.D	4	03/24/18 01:46	MV	03/22/18 13:45	OP69297	S9I26

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml
Run #3	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	0.146 [c]	0.020	mg/l	
95-48-7	2-Methylphenol	0.0324	0.0050	mg/l	
	3&4-Methylphenol	0.0241	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	8% [d]	8% [d]	29%	14-67%
4165-62-2	Phenol-d5	6% [d]	6% [d]	23%	10-50%
118-79-6	2,4,6-Tribromophenol	19% [d]	18% [d]	115%	33-118%
4165-60-0	Nitrobenzene-d5	64%	39% [d]	93%	42-108%
321-60-8	2-Fluorobiphenyl	37% [d]	38% [d]	84%	40-106%
1718-51-0	Terphenyl-d14	8% [d]	8% [d]	93%	39-121%

(a) All hits confirmed by re-extraction and reanalysis beyond holdtime.
(b) Confirmation run for surrogate recoveries. Dilution required due to matrix interfirence (Internal Standar failure).
(c) Result is from Run# 2
(d) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-19D (031318)
Lab Sample ID: FA52422-3 **Date Sampled:** 03/13/18
Matrix: AQ - Ground Water **Date Received:** 03/14/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01786.D	50	03/27/18 19:57	FS	03/16/18 08:30	OP69204	S7G80
Run #2	7G01787.D	100	03/27/18 20:21	FS	03/16/18 08:30	OP69204	S7G80

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.050	mg/l	
83-32-9	Acenaphthene	0.209	0.050	mg/l	
208-96-8	Acenaphthylene	ND	0.050	mg/l	
120-12-7	Anthracene	ND	0.050	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.010	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.010	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.010	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.010	mg/l	
218-01-9	Chrysene	ND	0.010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.010	mg/l	
206-44-0	Fluoranthene	ND	0.050	mg/l	
86-73-7	Fluorene	0.107	0.050	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.010	mg/l	
91-57-6	2-Methylnaphthalene	0.347	0.050	mg/l	
91-20-3	Naphthalene	3.33 [a]	0.10	mg/l	
85-01-8	Phenanthrene	0.106	0.050	mg/l	
129-00-0	Pyrene	ND	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19D (031318)		
Lab Sample ID:	FA52422-3	**Date Sampled:**	03/13/18
Matrix:	AQ - Ground Water	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33474

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-19D (031318)		
Lab Sample ID:	FA52422-3F	**Date Sampled:**	03/13/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/14/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14758
(2) Prep QC Batch: MP33473

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52422

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fed-Ex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN CREOSOTE	Proj. City: Bloomington	Address: 150 W. Market St Ste 728	PM: Randall Woodruff
CSXT Contact:	LWON: ENV 53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (site COCs)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	Note Pres. Code	COMMENTS	LAB USE
MW-38L(031318) 1	7	3-13-18	1445	CS	N	Grab		X	X	X	X			
MW-38D(031318) 2	7	3-13-18	1535	CS	N	Grab		X	X	X	X			
MW-19D(031318) 3	7	3-13-18	1638	CS	N	Grab		X	X	X	X			
TB-1 (031318)	1													

Relinquished By:	Date Time:	Received By:	Date Time:
		Fed Ex	
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time: 03/14/18 945	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal # ; LAB Log Number #

Comments & Special Analytical Requirements:
- See table for site COCs
- Dissolved metal filter + preserve (1L amber)

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 (3.4) — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52422: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52422 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/14/2018 9:45:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1015923861960003281100780041416327

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/14/2018 9:45:00 AM Reviewer: _____ Date: _____

FA52422: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52495

Sampling Date: 03/15/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **165**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

April 4, 2018

Mr. Randall Woodruff
Arcadis U.S., Inc
150 West Market Street, Suite 728
Indianapolis, IN 46204

RE: SGS North America Inc. - Orlando job FA52495 Reissue

Dear Mr. Woodruff,

The final report for job number FA52495 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Client ID for FA52495-3 was changed to MW-34A from MW-43A.

Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

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Sample Summary

CSX Transportation

Job No: FA52495

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52495-1	03/15/18	13:25	RWCS	03/16/18	AQ	Ground Water	MW-1D (031518)
FA52495-1F	03/15/18	13:25	RWCS	03/16/18	AQ	Groundwater Filtered	MW-1D (031518)
FA52495-2	03/15/18	15:20	RWCS	03/16/18	AQ	Ground Water	MW-37C (031518)
FA52495-2F	03/15/18	15:20	RWCS	03/16/18	AQ	Groundwater Filtered	MW-37C (031518)
FA52495-3	03/15/18	10:35	RWCS	03/16/18	AQ	Ground Water	MW-34A (031518)
FA52495-3F	03/15/18	10:35	RWCS	03/16/18	AQ	Groundwater Filtered	MW-34A (031518)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52495

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:48:02

3 Sample(s) were collected on 03/15/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 5.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52495. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4393

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52495-3MS, FA52495-3MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA52495-1, FA52495-3 have surrogates outside control limits.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52495-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52495-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52495-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52495-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52495-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52495-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52495-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52495-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52495-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52495-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52495-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52495-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52495-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52495-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52495-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52495-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33476

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2DUP, FA52403-2MS, FA52403-2MSD, FA52403-2PS, FA52403-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33476-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52495
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52495-1	**MW-1D (031518)**					
Ethylbenzene		0.0083	0.0050		mg/l	SW846 8260B
Carbazole		0.129	0.024		mg/l	SW846 8270D
Dibenzofuran		0.212	0.024		mg/l	SW846 8270D
Acenaphthene		0.434	0.019		mg/l	SW846 8270D BY SIM
Anthracene		0.0304	0.019		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0115	0.0038		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.0048	0.0038		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.0051	0.0038		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.0042	0.0038		mg/l	SW846 8270D BY SIM
Chrysene		0.0091	0.0038		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0808	0.019		mg/l	SW846 8270D BY SIM
Fluorene		0.236	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.166	0.019		mg/l	SW846 8270D BY SIM
Phenanthrene		0.175	0.019		mg/l	SW846 8270D BY SIM
Pyrene		0.0661	0.019		mg/l	SW846 8270D BY SIM
FA52495-1F	**MW-1D (031518)**					
No hits reported in this sample.						
FA52495-2	**MW-37C (031518)**					
Pentachlorophenol		0.0073	0.00096		mg/l	SW846 8270D BY SIM
Acenaphthene		0.0035	0.00096		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.0011	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00082	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00082	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00039	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00073	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.0012	0.00019		mg/l	SW846 8270D BY SIM
Dibenzo(a,h)anthracene		0.00021	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0045	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.0030	0.00096		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00056	0.00019		mg/l	SW846 8270D BY SIM
Naphthalene		0.0057	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0022	0.00096		mg/l	SW846 8270D BY SIM
Pyrene		0.0030	0.00096		mg/l	SW846 8270D BY SIM
FA52495-2F	**MW-37C (031518)**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA52495
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52495-3	**MW-34A (031518)**					
Benzene		0.151	0.025		mg/l	SW846 8260B
Toluene		0.216	0.025		mg/l	SW846 8260B
Ethylbenzene		0.157	0.025		mg/l	SW846 8260B
Xylene (total)		0.363	0.075		mg/l	SW846 8260B
2,4-Dimethylphenol		0.324	0.024		mg/l	SW846 8270D
2-Methylphenol		0.0613	0.024		mg/l	SW846 8270D
3&4-Methylphenol		0.0367	0.024		mg/l	SW846 8270D
Carbazole		0.325	0.024		mg/l	SW846 8270D
Dibenzofuran		0.244	0.024		mg/l	SW846 8270D
Acenaphthene		0.351	0.19		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.587	0.19		mg/l	SW846 8270D BY SIM
Naphthalene		10.9	0.38		mg/l	SW846 8270D BY SIM
FA52495-3F	**MW-34A (031518)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1D (031518)
Lab Sample ID: FA52495-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101935.D	1	03/21/18 17:49	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0083	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1D (031518)
Lab Sample ID: FA52495-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059409.D	5	03/22/18 04:10	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.024	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.024	mg/l	
95-48-7	2-Methylphenol	ND	0.024	mg/l	
	3&4-Methylphenol	ND	0.024	mg/l	
108-95-2	Phenol	ND	0.024	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.024	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.024	mg/l	
86-74-8	Carbazole	0.129	0.024	mg/l	
132-64-9	Dibenzofuran	0.212	0.024	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	60%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1D (031518)
Lab Sample ID: FA52495-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01792.D	20	03/27/18 22:18	FS	03/21/18 09:00	OP69268	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.434	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	0.0304	0.019	mg/l	
56-55-3	Benzo(a)anthracene	0.0115	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	0.0048	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	0.0051	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	0.0042	0.0038	mg/l	
218-01-9	Chrysene	0.0091	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	0.0808	0.019	mg/l	
86-73-7	Fluorene	0.236	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.019	mg/l	
91-20-3	Naphthalene	0.166	0.019	mg/l	
85-01-8	Phenanthrene	0.175	0.019	mg/l	
129-00-0	Pyrene	0.0661	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1D (031518)		
Lab Sample ID:	FA52495-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1D (031518)		
Lab Sample ID:	FA52495-1F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (031518)		
Lab Sample ID:	FA52495-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101936.D	1	03/21/18 18:37	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (031518)
Lab Sample ID: FA52495-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059428.D	1	03/22/18 12:02	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37C (031518)
Lab Sample ID: FA52495-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3624.D	1	03/26/18 13:53	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0073	0.00096	mg/l	
83-32-9	Acenaphthene	0.0035	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	0.0011	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00082	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00082	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00039	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00073	0.00019	mg/l	
218-01-9	Chrysene	0.0012	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	0.00021	0.00019	mg/l	
206-44-0	Fluoranthene	0.0045	0.00096	mg/l	
86-73-7	Fluorene	0.0030	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00056	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0057	0.00096	mg/l	
85-01-8	Phenanthrene	0.0022	0.00096	mg/l	
129-00-0	Pyrene	0.0030	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	52% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37C (031518)		
Lab Sample ID:	FA52495-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37C (031518)		
Lab Sample ID:	FA52495-2F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (031518)		
Lab Sample ID:	FA52495-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101937.D	5	03/21/18 19:06	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.151	0.025	mg/l	
108-88-3	Toluene	0.216	0.025	mg/l	
100-41-4	Ethylbenzene	0.157	0.025	mg/l	
1330-20-7	Xylene (total)	0.363	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (031518)
Lab Sample ID: FA52495-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059411.D	5	03/22/18 04:59	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.024	mg/l	
105-67-9	2,4-Dimethylphenol	0.324	0.024	mg/l	
95-48-7	2-Methylphenol	0.0613	0.024	mg/l	
	3&4-Methylphenol	0.0367	0.024	mg/l	
108-95-2	Phenol	ND	0.024	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.024	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.024	mg/l	
86-74-8	Carbazole	0.325	0.024	mg/l	
132-64-9	Dibenzofuran	0.244	0.024	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-67%
4165-62-2	Phenol-d5	17%		10-50%
118-79-6	2,4,6-Tribromophenol	97%		33-118%
4165-60-0	Nitrobenzene-d5	80%		42-108%
321-60-8	2-Fluorobiphenyl	90%		40-106%
1718-51-0	Terphenyl-d14	62%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-34A (031518)
Lab Sample ID: FA52495-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01793.D	200	03/27/18 22:41	FS	03/21/18 09:00	OP69268	S7G80
Run #2	7G01805.D	400	03/28/18 12:45	FS	03/21/18 09:00	OP69268	S7G81

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.19	mg/l	
83-32-9	Acenaphthene	0.351	0.19	mg/l	
208-96-8	Acenaphthylene	ND	0.19	mg/l	
120-12-7	Anthracene	ND	0.19	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.038	mg/l	
218-01-9	Chrysene	ND	0.038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.038	mg/l	
206-44-0	Fluoranthene	ND	0.19	mg/l	
86-73-7	Fluorene	ND	0.19	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.038	mg/l	
91-57-6	2-Methylnaphthalene	0.587	0.19	mg/l	
91-20-3	Naphthalene	10.9 [a]	0.38	mg/l	
85-01-8	Phenanthrene	ND	0.19	mg/l	
129-00-0	Pyrene	ND	0.19	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [b]	0% [b]	33-118%
4165-60-0	Nitrobenzene-d5	0% [b]	0% [b]	42-108%
321-60-8	2-Fluorobiphenyl	0% [b]	0% [b]	40-106%
1718-51-0	Terphenyl-d14	0% [b]	0% [b]	39-121%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-34A (031518)		
Lab Sample ID:	FA52495-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-34A (031518)		
Lab Sample ID:	FA52495-3F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # 1 of 1 FA52495

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@Arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCS 8270 (site constituents)	Total Metals 6010 (as Pb)	Dissolved Metals 6010	COMMENTS	LAB USE
MW-1D (031518) 1	7	3/15/18	1325	RJW	N	Grab		X	X	X	X		
MW-37C (031518) 2	7	3/15/18	1520	RJW	N	Grab		X	X	X	X		
MW-43A (031518) 3	7	3/15/18	1035	CS	N	Grab		X	X	X	X		
TB-1 (031518)	1	3/15/18											

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Arcadis	3/15/18 1600	Fed Ex	
2	Fed Ex			
3				
Received By Laboratory:		03/16/18 930	Lab Remarks: 5.8	

Comments & Special Analytical Requirements:
- See Table 1 for site COCs.
- Dissolved metals - lab filter + preserve (1 L Amber)

LAB USE: Custody Intact ☐ Yes ☐ No
Custody Seal #
LAB Log Number

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

Table 1. Chemicals of Concern Units	Yes	Closure Limits mg/L Industrial	 mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexy)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

SGS Sample Receipt Summary

Job Number: FA52495 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826062260003281100780098252010

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (5.4);

Cooler Temps (Corrected) °C: Cooler 1: (5.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☐		☑	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☐		☑	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #1 REC'D 1- BROKEN VIAL AND 1- AMBER. SAMPLE #2 REC'D -1 AMBER BROKEN. NO TB REC'D. SAMPLE #3 ID LABELS READ "MW-34A @10:35."

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

Job Change Order: FA52495

Requested Date:	4/4/2018	**Received Date:**	3/16/2018
Account Name:	CSX Transportation	**Due Date:**	3/30/2018
Project Description:	AGMININD: 9415829/ENV53216, Former Indiana C	**Deliverable:**	FULT1
CSR:	kenneth.overstreet	**TAT (Days):**	2

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Sample #: FA52495-3

Dept:

TAT: 2

MW-43A (031518)

Change:
Change client ID to MW-34A

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Above Changes Per: Randall Woodruff **Date/Time:** 4/4/2018 11:36:59 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4393-MB	M0101928.D	1	03/21/18	JG	n/a	n/a	VM4393

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Blank Spike Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM4393-BS	M0101927.D	1	03/21/18	JG	n/a	n/a	VM4393

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.2	101	81-122
100-41-4	Ethylbenzene	25	25.8	103	81-121
108-88-3	Toluene	25	25.4	102	80-120
1330-20-7	Xylene (total)	75	78.4	105	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA52495-3MS	M0101944.D	5	03/21/18	JG	n/a	n/a	VM4393
FA52495-3MSD	M0101945.D	5	03/21/18	JG	n/a	n/a	VM4393
FA52495-3	M0101937.D	5	03/21/18	JG	n/a	n/a	VM4393

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	FA52495-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	151		125	272	97	125	269	94	1	81-122/14
100-41-4	Ethylbenzene	157		125	281	99	125	273	93	3	81-121/14
108-88-3	Toluene	216		125	332	93	125	325	87	2	80-120/14
1330-20-7	Xylene (total)	363		375	736	99	375	717	94	3	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA52495-3	Limits
1868-53-7	Dibromofluoromethane	98%	100%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	103%	79-125%
2037-26-5	Toluene-D8	101%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	97%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VM4378-BFB
Lab File ID: M0101650.D
Instrument ID: GCMSM
Injection Date: 03/06/18
Injection Time: 11:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	66488	20.6		Pass
75	30.0 - 60.0% of mass 95	151467	46.9		Pass
95	Base peak, 100% relative abundance	323051	100.0		Pass
96	5.0 - 9.0% of mass 95	22400	6.93		Pass
173	Less than 2.0% of mass 174	1297	0.40	(0.41) [a]	Pass
174	50.0 - 100.0% of mass 95	313771	97.1		Pass
175	5.0 - 9.0% of mass 174	23133	7.16	(7.37) [a]	Pass
176	95.0 - 101.0% of mass 174	304661	94.3	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	21125	6.54	(6.93) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VM4378-IC4378	M0101651.D	03/06/18	11:29	00:29	Initial cal 1
VM4378-IC4378	M0101652.D	03/06/18	12:02	01:02	Initial cal 2
VM4378-IC4378	M0101653.D	03/06/18	12:32	01:32	Initial cal 3
VM4378-IC4378	M0101654.D	03/06/18	13:01	02:01	Initial cal 4
VM4378-ICC4378	M0101655.D	03/06/18	13:30	02:30	Initial cal 5
VM4378-IC4378	M0101656.D	03/06/18	14:00	03:00	Initial cal 6
VM4378-IC4378	M0101657.D	03/06/18	14:31	03:31	Initial cal 7
VM4378-ICV4378	M0101659.D	03/06/18	16:12	05:12	Initial cal verification 5
VM4378-BS	M0101660.D	03/06/18	16:42	05:42	Blank Spike
VM4378-MB	M0101661.D	03/06/18	17:12	06:12	Method Blank
ZZZZZZ	M0101662.D	03/06/18	17:42	06:42	(unrelated sample)
ZZZZZZ	M0101663.D	03/06/18	18:11	07:11	(unrelated sample)
ZZZZZZ	M0101664.D	03/06/18	18:40	07:40	(unrelated sample)
ZZZZZZ	M0101665.D	03/06/18	19:12	08:12	(unrelated sample)
ZZZZZZ	M0101666.D	03/06/18	19:42	08:42	(unrelated sample)
ZZZZZZ	M0101667.D	03/06/18	20:12	09:12	(unrelated sample)
ZZZZZZ	M0101668.D	03/06/18	20:41	09:41	(unrelated sample)
ZZZZZZ	M0101669.D	03/06/18	21:12	10:12	(unrelated sample)
ZZZZZZ	M0101670.D	03/06/18	21:42	10:42	(unrelated sample)
FA52104-17	M0101671.D	03/06/18	22:11	11:11	(used for QC only; not part of job FA52495)
FA52104-17MS	M0101672.D	03/06/18	22:42	11:42	Matrix Spike
FA52104-17MSD	M0101673.D	03/06/18	23:11	12:11	Matrix Spike Duplicate
ZZZZZZ	M0101674.D	03/06/18	23:42	12:42	(unrelated sample)
VM4378-ECC4378	M0101675.D	03/07/18	00:11	13:11	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: VM4393-BFB
Lab File ID: M0101925.D
Instrument ID: GCMSM
Injection Date: 03/21/18
Injection Time: 11:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	64765	20.7		Pass
75	30.0 - 60.0% of mass 95	148139	47.4		Pass
95	Base peak, 100% relative abundance	312576	100.0		Pass
96	5.0 - 9.0% of mass 95	21040	6.73		Pass
173	Less than 2.0% of mass 174	1939	0.62	(0.63) [a]	Pass
174	50.0 - 100.0% of mass 95	309120	98.9		Pass
175	5.0 - 9.0% of mass 174	22325	7.14	(7.22) [a]	Pass
176	95.0 - 101.0% of mass 174	297472	95.2	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	19624	6.28	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VM4393-CC4378	M0101926.D	03/21/18	12:42	01:22	Continuing cal 5
VM4393-BS	M0101927.D	03/21/18	13:11	01:51	Blank Spike
VM4393-MB	M0101928.D	03/21/18	13:39	02:19	Method Blank
ZZZZZZ	M0101929.D	03/21/18	14:39	03:19	(unrelated sample)
ZZZZZZ	M0101930.D	03/21/18	15:07	03:47	(unrelated sample)
ZZZZZZ	M0101931.D	03/21/18	15:37	04:17	(unrelated sample)
ZZZZZZ	M0101932.D	03/21/18	16:23	05:03	(unrelated sample)
ZZZZZZ	M0101933.D	03/21/18	16:51	05:31	(unrelated sample)
ZZZZZZ	M0101934.D	03/21/18	17:21	06:01	(unrelated sample)
FA52495-1	M0101935.D	03/21/18	17:49	06:29	MW-1D (031518)
FA52495-2	M0101936.D	03/21/18	18:37	07:17	MW-37C (031518)
FA52495-3	M0101937.D	03/21/18	19:06	07:46	MW-34A (031518)
ZZZZZZ	M0101938.D	03/21/18	19:33	08:13	(unrelated sample)
ZZZZZZ	M0101939.D	03/21/18	20:02	08:42	(unrelated sample)
ZZZZZZ	M0101940.D	03/21/18	20:30	09:10	(unrelated sample)
ZZZZZZ	M0101941.D	03/21/18	21:00	09:40	(unrelated sample)
ZZZZZZ	M0101942.D	03/21/18	21:28	10:08	(unrelated sample)
ZZZZZZ	M0101943.D	03/21/18	21:57	10:37	(unrelated sample)
FA52495-3MS	M0101944.D	03/21/18	22:26	11:06	Matrix Spike
FA52495-3MSD	M0101945.D	03/21/18	22:54	11:34	Matrix Spike Duplicate

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	VM4393-CC4378	**Injection Date:**	03/21/18
Lab File ID:	M0101926.D	**Injection Time:**	12:42
Instrument ID:	GCMSM	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1499837	8.14	1251818	11.30	662589	13.68	135812	5.58
Check Std [b]	1432547	8.14	1144145	11.31	628107	13.68	124069	5.59
Upper Limit [c]	2865094	8.31	2288290	11.48	1256214	13.85	248138	5.76
Lower Limit [d]	716274	7.97	572073	11.14	314054	13.51	62035	5.42

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VM4393-BS	1440875	8.14	1167348	11.31	612847	13.68	120504	5.58
VM4393-MB	1386686	8.14	1123432	11.30	600772	13.68	106199	5.58
ZZZZZZ	1365836	8.14	1089506	11.31	553411	13.68	101246	5.57
ZZZZZZ	1308687	8.14	1029160	11.30	534697	13.68	87132	5.57
ZZZZZZ	1291304	8.14	1016188	11.31	519058	13.68	88832	5.58
ZZZZZZ	1304299	8.14	1069837	11.30	590214	13.68	324264*	5.59
ZZZZZZ	1274758	8.14	983203	11.31	510530	13.68	91655	5.57
ZZZZZZ	1233069	8.14	977575	11.30	520540	13.68	85590	5.58
FA52495-1	1249395	8.14	990233	11.31	533149	13.68	91630	5.58
FA52495-2	1272435	8.14	992536	11.31	528012	13.68	108058	5.57
FA52495-3	1272555	8.14	1028281	11.30	547959	13.68	91601	5.57
ZZZZZZ	1291860	8.14	1019487	11.30	551272	13.68	102376	5.57
ZZZZZZ	1265971	8.14	996927	11.31	520409	13.68	99198	5.58
ZZZZZZ	1256089	8.14	1023160	11.30	543762	13.68	93941	5.57
ZZZZZZ	1270866	8.14	987909	11.31	523253	13.68	94159	5.58
ZZZZZZ	1242341	8.14	1004252	11.30	536477	13.68	97267	5.57
ZZZZZZ	1242494	8.14	1007838	11.31	540672	13.68	90467	5.58
FA52495-3MS	1359040	8.14	1087629	11.30	587390	13.68	116569	5.57
FA52495-3MSD	1378651	8.14	1117912	11.31	598809	13.68	115025	5.58

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VM4378-ICC4378 M0101655.D 03/06/18 13:30
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Surrogate Recovery Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA52495-1	M0101935.D	100	102	103	97
FA52495-2	M0101936.D	100	104	105	97
FA52495-3	M0101937.D	101	103	101	97
FA52495-3MS	M0101944.D	98	100	101	98
FA52495-3MSD	M0101945.D	100	98	100	98
VM4393-BS	M0101927.D	100	97	101	99
VM4393-MB	M0101928.D	99	101	100	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Initial Calibration Summary

Job Number: FA52495 **Sample:** VM4378-ICC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101655.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSVOA7

Method : C:\MSDchem\1\METHODS\M-MAR6.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Mar 12 10:07:46 2018
Response via : Initial Calibration

Calibration Files
1 =M0101651.D 2 =M0101652.D 3 =M0101653.D 4 =M0101654.D
5 =M0101655.D 6 =M0101656.D 7 =M0101657.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.130	0.188	0.179	0.184	0.194	0.195	0.194	0.181	12.70
3)P Chloromethane	0.285	0.301	0.301	0.281	0.274	0.277	0.274	0.284	4.10
4) 1,3-butadiene	0.177	0.230	0.219	0.227	0.213	0.214	0.217	0.214	8.15
5)C Vinyl Chloride	0.179	0.260	0.264	0.262	0.258	0.266	0.267	0.251	12.63
6) Bromomethane	0.269	0.165	0.164	0.153	0.145	0.136	0.128	0.166	28.77
---- Linear regr., Force(0,0) ---- Coefficient = 0.9970									
Response Ratio = 0.00000 + 0.13303 *A									
7) Chloroethane	0.118	0.133	0.135	0.102	0.073	0.065	0.059	0.098	33.18
8) Trichlorofluorome	0.387	0.452	0.457	0.436	0.429	0.422	0.306	0.413	12.73
9) Ethyl Ether	0.269	0.298	0.281	0.266	0.266	0.266	0.256	0.272	5.02
10) 1,2-Dichlorotrifl	0.327	0.377	0.337	0.319	0.309	0.310	0.314	0.328	7.29
11)C 1,1-Dichloroethen	0.441	0.537	0.480	0.454	0.437	0.440	0.441	0.462	7.95
12) Freon 113	0.281	0.347	0.311	0.300	0.289	0.287	0.299	0.302	7.37
13) Carbon Disulfide	0.831	0.994	0.880	0.855	0.828	0.842	0.860	0.870	6.61
14) Iodomethane	0.613	0.683	0.625	0.600	0.591	0.606	0.609	0.618	4.96
15) Allyl chloride	0.423	0.434	0.449	0.464	0.440	0.448	0.447	0.444	2.89
16) Methylene Chlorid	2.393	0.767	0.611	0.492	0.459	0.447	0.431	0.800	89.08
---- Linear regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.44168 *A									
17) Acetone	0.238	0.066	0.081	0.075	0.073	0.065	0.063	0.094	67.36
---- Linear regr., Force(0,0) ---- Coefficient = 0.9965									
Response Ratio = 0.00000 + 0.06521 *A									
18) Methyl acetate	0.240	0.214	0.192	0.182	0.183	0.177	0.171	0.194	12.56
19) trans-1,2-Dichlor	0.451	0.526	0.472	0.450	0.438	0.439	0.432	0.458	7.10
20) Hexane	0.324	0.368	0.323	0.313	0.299	0.294	0.296	0.317	8.22
21) Methyl Tert Butyl	0.847	0.835	0.782	0.749	0.753	0.743	0.726	0.776	6.10
22) Acetonitrile	0.027	0.007	0.026	0.027	0.027	0.025	0.025	0.023	30.96
---- Linear regr., Force(0,0) ---- Coefficient = 0.9977									
Response Ratio = 0.00000 + 0.02536 *A									
23) Di-isopropyl ethe	1.215	1.230	1.138	1.082	1.067	1.060	1.008	1.114	7.48
24) Chloroprene	0.404	0.475	0.498	0.505	0.482	0.491	0.498	0.479	7.26
25)P 1,1-Dichloroethan	0.539	0.628	0.552	0.533	0.521	0.520	0.516	0.544	7.16
26) Acrylonitrile	0.099	0.079	0.096	0.095	0.102	0.097	0.095	0.095	7.79
27) ETBE	1.079	1.111	1.036	0.986	0.962	0.939	0.905	1.003	7.53
28) Vinyl acetate	0.548	0.567	0.611	0.572	0.559	0.495	0.447	0.543	10.03
29) cis-1,2-Dichloroe	0.336	0.348	0.326	0.319	0.314	0.319	0.317	0.326	3.82
30) 2,2-Dichloropropa	0.402	0.457	0.405	0.380	0.368	0.374	0.374	0.394	7.88
31) Bromochloromethan	0.174	0.201	0.191	0.180	0.181	0.181	0.176	0.184	5.20
32) Cyclohexane	0.546	0.668	0.582	0.562	0.548	0.546	0.552	0.572	7.73
33)C Chloroform	0.580	0.591	0.555	0.528	0.517	0.521	0.514	0.544	5.83
34) Ethyl acetate	0.234	0.223	0.239	0.232	0.240	0.225	0.213	0.230	4.21

Initial Calibration Summary

Job Number: FA52495 **Sample:** VM4378-ICC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101655.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

35)	Tetrahydrofuran	0.095	0.089	0.084	0.077	0.076	0.071	0.068	0.080	12.26
36)S	Dibromofluorometh	0.296	0.292	0.291	0.291	0.291	0.290	0.287	0.291	0.88
37)	Carbon Tetrachlor	0.467	0.549	0.481	0.475	0.454	0.466	0.467	0.480	6.60
38)	1,1,1-Trichloroet	0.485	0.549	0.505	0.480	0.471	0.473	0.473	0.491	5.75
39)	2-Butanone	0.131	0.093	0.103	0.107	0.109	0.102	0.098	0.106	11.49
40)	1,1-Dichloroprope	0.362	0.419	0.382	0.371	0.366	0.371	0.368	0.377	5.13
41)	tert-Butyl format	0.243	0.248	0.271	0.265	0.259	0.238	0.214	0.248	7.71
42)	Propionitrile	0.038	0.027	0.040	0.038	0.037	0.034	0.033	0.035	12.49
43)	Methacrylonitrile	0.155	0.145	0.168	0.151	0.142	0.127	0.113	0.143	12.80
44)	Benzene	1.102	1.239	1.108	1.077	1.050	1.049	1.015	1.091	6.66
45)	TAME	0.854	0.850	0.802	0.772	0.778	0.773	0.750	0.797	5.08
46)S	1,2-Dichloroethan	0.322	0.324	0.325	0.310	0.307	0.307	0.295	0.313	3.55
47)	1,2-Dichloroethan	0.473	0.482	0.434	0.412	0.407	0.402	0.386	0.428	8.57
48)	Trichloroethene	0.326	0.357	0.321	0.311	0.306	0.309	0.304	0.319	5.80
49)	Methylcyclohexane	0.462	0.556	0.472	0.476	0.460	0.455	0.459	0.477	7.44
50)	Dibromomethane	0.201	0.205	0.195	0.188	0.189	0.189	0.183	0.193	4.15
51)	Ethyl Acrylate	0.239	0.262	0.331	0.339	0.364	0.353	0.353	0.320	15.37
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 0.35212 *A + 0.00086 *A^2									
52)C	1,2-Dichloropropa	0.333	0.348	0.318	0.309	0.309	0.310	0.302	0.318	5.16
53)	Bromodichlorometh	0.384	0.425	0.391	0.384	0.385	0.388	0.380	0.391	3.93
54)	Methyl methacryla	0.192	0.209	0.241	0.241	0.232	0.227	0.219	0.223	7.94
55)	2-Chloroethyl vin	0.156	0.164	0.195	0.181	0.184	0.170	0.158	0.173	8.32
56)	cis-1,3-Dichlorop	0.467	0.501	0.471	0.463	0.469	0.475	0.462	0.473	2.76
57) I	Chlorobenzene-d5	----------ISTD----------								
58)S	Toluene-d8	1.134	1.122	1.135	1.139	1.130	1.137	1.159	1.137	0.98
59)C	Toluene	1.643	1.653	1.493	1.443	1.396	1.374	1.336	1.477	8.62
60)	2-Nitropropane	0.080	0.082	0.080	0.080	0.078	0.076	0.074	0.079	3.69
61)	4-Methyl-2-pentan	0.288	0.268	0.303	0.302	0.297	0.269	0.246	0.282	7.65
62)	trans-1,3-Dichlor	0.466	0.502	0.486	0.482	0.475	0.476	0.465	0.479	2.68
63)	Tetrachloroethene	0.439	0.533	0.464	0.475	0.495	0.512	0.484	0.486	6.40
64)	Ethyl methacrylat	0.271	0.329	0.394	0.399	0.402	0.400	0.407	0.372	13.95
65)	1,1,2-Trichloroet	0.277	0.288	0.263	0.250	0.248	0.250	0.247	0.260	6.27
66)	Dibromochlorometh	0.433	0.440	0.434	0.429	0.436	0.437	0.437	0.435	0.85
67)	1,3-Dichloropropa	0.491	0.541	0.509	0.490	0.492	0.486	0.482	0.499	4.15
68)	1,2-Dibromoethane	0.374	0.374	0.348	0.339	0.346	0.347	0.342	0.353	4.16
69)	2-hexanone	0.185	0.199	0.209	0.214	0.214	0.194	0.176	0.199	7.36
70)	1-Chlorohexane	0.483	0.561	0.511	0.515	0.502	0.500	0.511	0.512	4.68
71)C	Ethylbenzene	1.771	1.830	1.691	1.624	1.580	1.500	1.394	1.627	9.35
72)P	Chlorobenzene	1.175	1.152	1.051	1.005	0.986	0.971	0.928	1.038	8.99
73)	1,1,1,2-Tetrachlo	0.439	0.439	0.427	0.415	0.412	0.419	0.420	0.424	2.57
74)	m,p-Xylene	1.266	1.444	1.326	1.270	1.183	1.061	0.934	1.212	14.04
75)	o-Xylene	1.328	1.451	1.350	1.319	1.293	1.248	1.193	1.312	6.21
76)	Styrene	0.942	1.116	1.082	1.088	1.085	1.078	1.027	1.060	5.51
77)P	Bromoform	0.263	0.271	0.279	0.280	0.287	0.293	0.289	0.280	3.77
78)	Isopropylbenzene	1.513	1.756	1.606	1.622	1.574	1.501	1.421	1.570	6.81
79) I	1,4-Dichlorobenzene-d	----------ISTD----------								
80)S	4-Bromofluorobenz	0.808	0.812	0.798	0.803	0.837	0.813	0.819	0.813	1.56
81)	cis-1,4-Dichloro-	0.098	0.102	0.167	0.175	0.185	0.183	0.181	0.156	24.78
	---- Linear regr., Force(0,0) ---- Coefficient = 0.9995									
	Response Ratio = 0.00000 + 0.18187 *A									
82)	n-Propylbenzene	3.489	3.937	3.620	3.450	3.428	3.096	2.796	3.402	10.76
83)	Bromobenzene	0.979	1.015	0.971	0.925	0.924	0.902	0.861	0.940	5.54
84)P	1,1,2,2-Tetrachlo	0.670	0.670	0.661	0.634	0.661	0.643	0.623	0.652	2.83
85)	1,3,5-Trimethylbe	2.453	2.783	2.610	2.543	2.570	2.369	2.211	2.506	7.31
86)	2-Chlorotoluene	2.343	2.568	2.353	2.258	2.297	2.140	2.032	2.284	7.46

Initial Calibration Summary

Job Number: FA52495 **Sample:** VM4378-ICC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101655.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
 87)  trans-1,4-Dichlor 0.144 0.142 0.197 0.210 0.224 0.214 0.207 0.191  17.75
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.21053 *A

 88)  1,2,3-Trichloropr 0.238 0.210 0.208 0.199 0.209 0.200 0.198 0.209   6.65
 89)  Cyclohexanone     0.033 0.015 0.033 0.038 0.038 0.035 0.037 0.033  24.31
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9970
               Response Ratio = 0.00000 + 0.03638 *A

 90)  4-Chlorotoluene   2.184 2.401 2.253 2.137 2.174 2.071 1.973 2.171   6.24
 91)  tert-Butylbenzene 1.398 1.620 1.503 1.445 1.471 1.409 1.375 1.460   5.69
 92)  a-Methyl styrene  1.058 1.250 1.494 1.500 1.539 1.517 1.505 1.409  13.02
 93)  1,2,4-Trimethylbe 2.651 2.892 2.709 2.618 2.640 2.495 2.321 2.618   6.76
 94)  Pentachloroethane 0.427 0.444 0.586 0.533 0.505 0.476 0.535 0.501  11.16
 95)  sec-Butylbenzene  3.132 3.602 3.331 3.237 3.240 2.994 2.770 3.186   8.22
 96)  4-Isopropyltoluen 2.651 3.115 2.952 2.858 2.852 2.683 2.486 2.800   7.48
 97)  1,3-Dichlorobenze 1.802 1.844 1.740 1.682 1.695 1.663 1.600 1.718   4.88
 98)  1,4-Dichlorobenze 1.912 1.936 1.809 1.725 1.712 1.684 1.611 1.770   6.82
 99)  n-Butylbenzene    1.348 1.543 1.453 1.453 1.416 1.398 1.359 1.424   4.68
100)  Benzyl Chloride   0.238 0.290 0.277 0.300 0.297 0.305 0.291 0.285   7.91
101)  1,2-Dichlorobenze 1.672 1.739 1.620 1.598 1.585 1.571 1.513 1.614   4.54
102)  1,2-Dibromo-3-Chl 0.094 0.102 0.102 0.104 0.109 0.104 0.105 0.103   4.35
103)  Hexachlorobutadie 0.452 0.495 0.482 0.476 0.474 0.476 0.480 0.477   2.71
104)  1,2,4-Trichlorobe 1.046 1.064 1.067 1.050 1.074 1.083 1.050 1.062   1.33
105)  Naphthalene       2.150 2.075 2.143 2.105 2.176 2.093 1.921 2.095   4.03
106)  1,2,3-Trichlorobe 0.967 0.932 0.955 0.940 0.975 0.976 0.940 0.955   1.88

107) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
108)  Ethanol                       0.092 0.122 0.122 0.105 0.126 0.113  12.76
109)  Acrolein          2.199 3.440 2.617 2.536 2.410 2.535 2.433 2.596  15.25
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 2.46584 *A

110)  Tert Butyl Alcoho 1.494 1.869 1.434 1.324 1.394 1.401 1.439 1.479  12.12
111)  Isobutyl alcohol  0.306 0.387 0.366 0.346 0.352 0.331 0.335 0.346   7.51
112)  Tert Amyl Alcohol 1.111 1.698 1.117 1.069 1.116 1.145 1.144 1.200  18.44
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 1.13931 *A

113)  1,4-Dioxane                   0.096 0.100 0.115 0.098 0.123 0.107  11.13
114)  3,3-dimethyl-1-bu 0.774 1.425 1.146 1.162 1.207 1.212 1.131 1.151  16.82
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9977
               Response Ratio = 0.00000 + 1.16249 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

          M-MAR6.M          Mon Mar 12 10:59:53 2018
```

Initial Calibration Verification

Job Number: FA52495 **Sample:** VM4378-ICV4378
Account: CSXT CSX Transportation **Lab FileID:** M0101659.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\MSDchem\1\DATA\030618\M0101659.D Vial: 2
Acq On : 6 Mar 2018 4:12 pm Operator: WILFREDO
Sample : ICV4378-5 Inst : MSVOA7
Misc : MS39639,VM4378,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\MSDchem\1\METHODS\M-MAR6.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Mar 12 10:07:46 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	100	0.00	8.14
2	Dichlorodifluoromethane	0.181	0.191	-5.5	99	-0.01	2.60
3 P	Chloromethane	0.284	0.260	8.5	95	0.00	2.90
4	1,3-butadiene	0.214	0.168	21.5#	79	0.00	3.02
5 C	Vinyl Chloride	0.251	0.226	10.0	88	0.00	3.05
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	39.540	1.2	91	0.00	3.50
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.098	0.086	12.2	117	0.00	3.65
8	Trichlorofluoromethane	0.413	0.404	2.2	94	0.00	3.89
9	Ethyl Ether	0.272	0.257	5.5	96	0.00	4.23
10	1,2-Dichlorotrifluoroetha	0.328	0.300	8.5	97	-0.02	4.50
11 C	1,1-Dichloroethene	0.462	0.413	10.6	95	0.00	4.50
12	Freon 113	0.302	0.229	24.2#	79	0.00	4.60
13	Carbon Disulfide	0.870	0.703	19.2	85	0.00	4.54
14	Iodomethane	0.618	0.531	14.1	90	0.00	4.68
15	Allyl chloride	0.444	0.412	7.2	94	0.00	5.09
		Amount	Calc.	%Drift			
16	Methylene Chloride	40.000	39.394	1.5	95	0.00	5.23
17	Acetone	200.000	188.356	5.8	84	0.00	5.28
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.194	0.174	10.3	95	0.00	5.43
19	trans-1,2-Dichloroethene	0.458	0.433	5.5	99	0.00	5.42
20	Hexane	0.317	0.260	18.0	87	0.00	5.51
21	Methyl Tert Butyl Ether	0.776	0.705	9.1	94	0.00	5.56
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	340.822	14.8	81	0.00	5.84
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	1.114	1.021	8.3	96	0.00	5.99
24	Chloroprene	0.479	0.489	-2.1	101	0.00	6.12
25 P	1,1-Dichloroethane	0.544	0.538	1.1	103	0.00	6.15
26	Acrylonitrile	0.095	0.099	-4.2	97	0.00	6.19
27	ETBE	1.003	0.940	6.3	98	0.00	6.41
28	Vinyl acetate	0.543	0.476	12.3	85	0.00	6.41
29	cis-1,2-Dichloroethene	0.326	0.320	1.8	102	0.00	6.76
30	2,2-Dichloropropane	0.394	0.383	2.8	104	0.00	6.89

Initial Calibration Verification

Job Number: FA52495 **Sample:** VM4378-ICV4378
Account: CSXT CSX Transportation **Lab FileID:** M0101659.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

31		Bromochloromethane	0.184	0.172	6.5	95	0.00	6.99
32		Cyclohexane	0.572	0.476	16.8	87	0.00	7.01
33	C	Chloroform	0.544	0.513	5.7	99	0.00	7.06
34		Ethyl acetate	0.230	0.209	9.1	87	0.00	7.17
35		Tetrahydrofuran	0.080	0.073	8.8	96	0.00	7.24
36	S	Dibromofluoromethane	0.291	0.294	-1.0	101	0.00	7.27
37		Carbon Tetrachloride	0.480	0.432	10.0	95	0.00	7.23
38		1,1,1-Trichloroethane	0.491	0.426	13.2	91	0.00	7.31
39		2-Butanone	0.106	0.103	2.8	94	0.00	7.39
40		1,1-Dichloropropene	0.377	0.335	11.1	91	0.00	7.44
41		tert-Butyl formate	0.248	0.209	15.7	81	0.00	7.55
42		Propionitrile	0.035	0.034	2.9	90	0.00	7.71
43		Methacrylonitrile	0.143	0.136	4.9	96	0.00	7.73
44		Benzene	1.091	1.017	6.8	97	0.00	7.70
45		TAME	0.797	0.731	8.3	94	0.00	7.82
46	S	1,2-Dichloroethane-d4	0.313	0.308	1.6	100	0.00	7.84
47		1,2-Dichloroethane	0.428	0.405	5.4	100	0.00	7.92
48		Trichloroethene	0.319	0.293	8.2	96	0.00	8.32
49		Methylcyclohexane	0.477	0.420	11.9	91	0.00	8.32
50		Dibromomethane	0.193	0.191	1.0	101	0.00	8.76
		----------	Amount	Calc.	%Drift	----------		
51		Ethyl Acrylate	40.000	36.885	7.8	89	0.00	8.84
		----------	AvgRF	CCRF	%Dev	----------		
52	C	1,2-Dichloropropane	0.318	0.301	5.3	98	0.00	8.86
53		Bromodichloromethane	0.391	0.387	1.0	101	0.00	8.92
54		Methyl methacrylate	0.223	0.224	-0.4	96	0.00	9.05
55		2-Chloroethyl vinyl ether	0.173	0.181	-4.6	99	0.00	9.47
56		cis-1,3-Dichloropropene	0.473	0.443	6.3	94	0.00	9.55
57	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	11.31
58	S	Toluene-d8	1.137	1.125	1.1	99	0.00	9.75
59	C	Toluene	1.477	1.347	8.8	96	0.00	9.80
60		2-Nitropropane	0.079	0.070	11.4	90	0.00	10.02
61		4-Methyl-2-pentanone	0.282	0.272	3.5	92	0.00	10.15
62		trans-1,3-Dichloropropene	0.479	0.485	-1.3	102	0.00	10.20
63		Tetrachloroethene	0.486	0.427	12.1	86	0.00	10.20
64		Ethyl methacrylate	0.372	0.366	1.6	91	0.00	10.33
65		1,1,2-Trichloroethane	0.260	0.249	4.2	100	0.00	10.37
66		Dibromochloromethane	0.435	0.440	-1.1	101	0.00	10.56
67		1,3-Dichloropropane	0.499	0.461	7.6	94	0.00	10.65
68		1,2-Dibromoethane	0.353	0.344	2.5	99	0.00	10.81
69		2-hexanone	0.199	0.187	6.0	88	0.00	10.98
70		1-Chlorohexane	0.512	0.446	12.9	89	0.00	11.27
71	C	Ethylbenzene	1.627	1.498	7.9	95	0.00	11.34
72	P	Chlorobenzene	1.038	0.959	7.6	97	0.00	11.32
73		1,1,1,2-Tetrachloroethane	0.424	0.424	0.0	103	0.00	11.38
74		m,p-Xylene	1.212	1.148	5.3	97	0.00	11.48
75		o-Xylene	1.312	1.246	5.0	96	0.00	11.91
76		Styrene	1.060	1.069	-0.8	98	0.00	11.97
77	P	Bromoform	0.280	0.283	-1.1	98	0.00	12.02
78		Isopropylbenzene	1.570	1.569	0.1	100	0.00	12.22
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	13.68
80	S	4-Bromofluorobenzene	0.813	0.817	-0.5	100	0.00	12.53
		----------	Amount	Calc.	%Drift	----------		
81		cis-1,4-Dichloro-2-butene	40.000	44.855	-12.1	113	0.00	12.58

Initial Calibration Verification

Job Number: FA52495 **Sample:** VM4378-ICV4378
Account: CSXT CSX Transportation **Lab FileID:** M0101659.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
82		n-Propylbenzene	3.402	3.136	7.8	94	0.00	12.64
83		Bromobenzene	0.940	0.914	2.8	102	0.00	12.65
84	P	1,1,2,2-Tetrachloroethane	0.652	0.651	0.2	101	0.00	12.71
85		1,3,5-Trimethylbenzene	2.506	2.454	2.1	98	0.00	12.83
86		2-Chlorotoluene	2.284	2.170	5.0	97	0.00	12.83
			Amount	Calc.	%Drift			
87		trans-1,4-Dichloro-2-Bute	40.000	38.330	4.2	92	0.00	12.89
			AvgRF	CCRF	%Dev			
88		1,2,3-Trichloropropane	0.209	0.197	5.7	97	0.00	12.87
			Amount	Calc.	%Drift			
89		Cyclohexanone	200.000	207.105	-3.6	103	0.00	12.92
			AvgRF	CCRF	%Dev			
90		4-Chlorotoluene	2.171	2.080	4.2	98	0.00	12.99
91		tert-Butylbenzene	1.460	1.340	8.2	93	0.00	13.17
92		a-Methyl styrene		----------NA----------				
93		1,2,4-Trimethylbenzene	2.618	2.496	4.7	97	0.00	13.24
94		Pentachloroethane	0.501	0.545	-8.8	111	0.00	13.22
95		sec-Butylbenzene	3.186	3.053	4.2	97	0.00	13.36
96		4-Isopropyltoluene	2.800	2.765	1.2	99	0.00	13.49
97		1,3-Dichlorobenzene	1.718	1.682	2.1	102	0.00	13.60
98		1,4-Dichlorobenzene	1.770	1.692	4.4	101	0.00	13.70
99		n-Butylbenzene	1.424	1.382	2.9	100	0.00	13.93
100		Benzyl Chloride	0.285	0.318	-11.6	110	0.00	13.94
101		1,2-Dichlorobenzene	1.614	1.574	2.5	102	0.00	14.13
102		1,2-Dibromo-3-Chloropropa	0.103	0.103	0.0	97	0.00	14.91
103		Hexachlorobutadiene	0.477	0.462	3.1	100	0.00	15.48
104		1,2,4-Trichlorobenzene	1.062	1.089	-2.5	104	0.00	15.52
105		Naphthalene	2.095	2.143	-2.3	101	0.00	15.80
106		1,2,3-Trichlorobenzene	0.955	0.957	-0.2	101	0.00	15.96
107	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	86	0.00	5.59
108		Ethanol	0.113	0.037	67.3#	26#	0.00	4.47
			Amount	Calc.	%Drift			
109		Acrolein	200.000	255.071	-27.5#	112	0.00	4.92
			AvgRF	CCRF	%Dev			
110		Tert Butyl Alcohol	1.479	1.452	1.8	90	0.00	5.67
111		Isobutyl alcohol	0.346	0.323	6.6	79	0.00	7.90
			Amount	Calc.	%Drift			
112		Tert Amyl Alcohol	400.000	379.991	5.0	84	0.00	8.01
			AvgRF	CCRF	%Dev			
113		1,4-Dioxane	0.107	0.094	12.1	71	0.00	9.11
			Amount	Calc.	%Drift			
114		3,3-dimethyl-1-butanol	2000.000	2014.342	-0.7	84	0.00	10.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
M0101655.D M-MAR6.M Mon Mar 12 10:59:41 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** VM4393-CC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101926.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\MSDchem\1\DATA\032118\M0101926.D Vial: 1
Acq On : 21 Mar 2018 12:42 pm Operator: JuaNG
Sample : cc4378-5 Inst : MSVOA7
Misc : MS39767,VM4393,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\MSDchem\1\METHODS\M-MAR6.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Mar 12 10:07:46 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00	8.14
2	Dichlorodifluoromethane	0.181	0.321	-77.3#	158	-0.02	2.59
3 P	Chloromethane	0.284	0.363	-27.8#	127	-0.01	2.90
4	1,3-butadiene	0.214	0.246	-15.0	110	-0.02	3.01
5 C	Vinyl Chloride	0.251	0.325	-29.5#	120	-0.01	3.04
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	50.002	-25.0#	110	-0.01	3.49
		AvgRF	CCRF	%Dev			
7	Chloroethane	0.098	0.090	8.2	117	0.00	3.65
8	Trichlorofluoromethane	0.413	0.488	-18.2	109	-0.01	3.88
9	Ethyl Ether	0.272	0.272	0.0	98	0.00	4.23
10	1,2-Dichlorotrifluoroetha	0.328	0.325	0.9	100	-0.01	4.50
11 C	1,1-Dichloroethene	0.462	0.454	1.7	99	0.00	4.49
12	Freon 113	0.302	0.297	1.7	98	0.00	4.59
13	Carbon Disulfide	0.870	0.851	2.2	98	0.00	4.53
14	Iodomethane	0.618	0.593	4.0	96	0.00	4.68
15	Allyl chloride	0.444	0.423	4.7	92	0.00	5.09
		Amount	Calc.	%Drift			
16	Methylene Chloride	40.000	40.334	-0.8	93	0.00	5.23
17	Acetone	200.000	195.032	2.5	83	0.00	5.28
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.194	0.178	8.2	93	0.00	5.43
19	trans-1,2-Dichloroethene	0.458	0.449	2.0	98	0.00	5.42
20	Hexane	0.317	0.321	-1.3	103	0.00	5.51
21	Methyl Tert Butyl Ether	0.776	0.714	8.0	91	0.00	5.56
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	391.584	2.1	89	0.00	5.84
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	1.114	1.083	2.8	97	0.00	5.99
24	Chloroprene	0.479	0.469	2.1	93	0.00	6.12
25 P	1,1-Dichloroethane	0.544	0.537	1.3	98	0.00	6.15
26	Acrylonitrile	0.095	0.097	-2.1	91	0.00	6.19
27	ETBE	1.003	0.962	4.1	96	0.00	6.41
28	Vinyl acetate	0.543	0.582	-7.2	99	0.00	6.41
29	cis-1,2-Dichloroethene	0.326	0.319	2.1	97	0.00	6.76
30	2,2-Dichloropropane	0.394	0.382	3.0	99	0.00	6.89

Continuing Calibration Summary

Job Number: FA52495 **Sample:** VM4393-CC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101926.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

31		Bromochloromethane	0.184	0.181	1.6	96	0.00	6.99
32		Cyclohexane	0.572	0.559	2.3	97	0.00	7.01
33	C	Chloroform	0.544	0.530	2.6	98	0.00	7.06
34		Ethyl acetate	0.230	0.235	-2.2	93	0.00	7.17
35		Tetrahydrofuran	0.080	0.072	10.0	91	0.00	7.24
36	S	Dibromofluoromethane	0.291	0.290	0.3	95	0.00	7.27
37		Carbon Tetrachloride	0.480	0.460	4.2	97	0.00	7.23
38		1,1,1-Trichloroethane	0.491	0.467	4.9	95	0.00	7.31
39		2-Butanone	0.106	0.100	5.7	87	0.00	7.39
40		1,1-Dichloropropene	0.377	0.377	0.0	98	0.00	7.43
41		tert-Butyl formate	0.248	0.220	11.3	81	0.00	7.55
42		Propionitrile	0.035	0.035	0.0	90	0.00	7.71
43		Methacrylonitrile	0.143	0.137	4.2	92	0.00	7.74
44		Benzene	1.091	1.068	2.1	97	0.00	7.70
45		TAME	0.797	0.742	6.9	91	0.00	7.81
46	S	1,2-Dichloroethane-d4	0.313	0.307	1.9	96	0.00	7.84
47		1,2-Dichloroethane	0.428	0.416	2.8	98	0.00	7.92
48		Trichloroethene	0.319	0.313	1.9	98	0.00	8.32
49		Methylcyclohexane	0.477	0.461	3.4	96	0.00	8.32
50		Dibromomethane	0.193	0.187	3.1	95	0.00	8.76
		----------	Amount	Calc.	%Drift		----------	
51		Ethyl Acrylate		----------NA----------				
		----------	AvgRF	CCRF	%Dev		----------	
52	C	1,2-Dichloropropane	0.318	0.310	2.5	96	0.00	8.86
53		Bromodichloromethane	0.391	0.380	2.8	94	0.00	8.92
54		Methyl methacrylate	0.223	0.223	0.0	92	0.00	9.05
55		2-Chloroethyl vinyl ether	0.173	0.186	-7.5	96	0.00	9.47
56		cis-1,3-Dichloropropene	0.473	0.475	-0.4	97	0.00	9.56
57	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00	11.31
58	S	Toluene-d8	1.137	1.167	-2.6	94	0.00	9.75
59	C	Toluene	1.477	1.469	0.5	96	0.00	9.80
60		2-Nitropropane	0.079	0.079	0.0	92	0.00	10.02
61		4-Methyl-2-pentanone	0.282	0.283	-0.4	87	0.00	10.16
62		trans-1,3-Dichloropropene	0.479	0.499	-4.2	96	0.00	10.20
63		Tetrachloroethene	0.486	0.472	2.9	87	0.00	10.20
64		Ethyl methacrylate	0.372	0.392	-5.4	89	0.00	10.33
65		1,1,2-Trichloroethane	0.260	0.260	0.0	96	0.00	10.37
66		Dibromochloromethane	0.435	0.439	-0.9	92	0.00	10.56
67		1,3-Dichloropropane	0.499	0.500	-0.2	93	0.00	10.65
68		1,2-Dibromoethane	0.353	0.347	1.7	92	0.00	10.81
69		2-hexanone	0.199	0.199	0.0	85	0.00	10.98
70		1-Chlorohexane	0.512	0.513	-0.2	93	0.00	11.28
71	C	Ethylbenzene	1.627	1.628	-0.1	94	0.00	11.34
72	P	Chlorobenzene	1.038	1.015	2.2	94	0.00	11.33
73		1,1,1,2-Tetrachloroethane	0.424	0.419	1.2	93	0.00	11.38
74		m,p-Xylene	1.212	1.232	-1.7	95	0.00	11.48
75		o-Xylene	1.312	1.311	0.1	93	0.00	11.91
76		Styrene	1.060	1.075	-1.4	91	0.00	11.97
77	P	Bromoform	0.280	0.268	4.3	85	0.00	12.02
78		Isopropylbenzene	1.570	1.596	-1.7	93	0.00	12.22
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00	13.68
80	S	4-Bromofluorobenzene	0.813	0.777	4.4	88	0.00	12.53
		----------	Amount	Calc.	%Drift		----------	
81		cis-1,4-Dichloro-2-butene	40.000	20.908	47.7#	49	0.00	12.58

Continuing Calibration Summary

Job Number: FA52495 **Sample:** VM4393-CC4378
Account: CSXT CSX Transportation **Lab FileID:** M0101926.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			AvgRF	CCRF	%Dev			
82		n-Propylbenzene	3.402	3.351	1.5	93	0.00	12.64
83		Bromobenzene	0.940	0.906	3.6	93	0.00	12.65
84	P	1,1,2,2-Tetrachloroethane	0.652	0.613	6.0	88	0.00	12.72
85		1,3,5-Trimethylbenzene	2.506	2.499	0.3	92	0.00	12.84
86		2-Chlorotoluene	2.284	2.238	2.0	92	0.00	12.83
			Amount	Calc.	%Drift			
87		trans-1,4-Dichloro-2-Bute	40.000	25.813	35.5#	58	0.00	12.89
			AvgRF	CCRF	%Dev			
88		1,2,3-Trichloropropane	0.209	0.194	7.2	88	0.00	12.87
			Amount	Calc.	%Drift			
89		Cyclohexanone	200.000	200.141	-0.1	92	0.00	12.92
			AvgRF	CCRF	%Dev			
90		4-Chlorotoluene	2.171	2.105	3.0	92	0.00	12.99
91		tert-Butylbenzene	1.460	1.440	1.4	93	0.00	13.17
92		a-Methyl styrene	1.409	1.466	-4.0	90	0.00	13.10
93		1,2,4-Trimethylbenzene	2.618	2.598	0.8	93	0.00	13.24
94		Pentachloroethane	0.501	0.558	-11.4	105	0.00	13.22
95		sec-Butylbenzene	3.186	3.197	-0.3	94	0.00	13.35
96		4-Isopropyltoluene	2.800	2.851	-1.8	95	0.00	13.49
97		1,3-Dichlorobenzene	1.718	1.670	2.8	93	0.00	13.60
98		1,4-Dichlorobenzene	1.770	1.709	3.4	95	0.00	13.70
99		n-Butylbenzene	1.424	1.446	-1.5	97	0.00	13.93
100		Benzyl Chloride	0.285	0.301	-5.6	96	0.00	13.94
101		1,2-Dichlorobenzene	1.614	1.590	1.5	95	0.00	14.13
102		1,2-Dibromo-3-Chloropropa	0.103	0.099	3.9	86	0.00	14.91
103		Hexachlorobutadiene	0.477	0.481	-0.8	96	0.00	15.48
104		1,2,4-Trichlorobenzene	1.062	1.092	-2.8	96	0.00	15.52
105		Naphthalene	2.095	2.087	0.4	91	0.00	15.80
106		1,2,3-Trichlorobenzene	0.955	0.965	-1.0	94	0.00	15.96
107	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	91	0.01	5.59
108		Ethanol	0.113	0.136	-20.4#	102	0.00	4.48
			Amount	Calc.	%Drift			
109		Acrolein	200.000	196.148	1.9	92	0.00	4.92
			AvgRF	CCRF	%Dev			
110		Tert Butyl Alcohol	1.479	1.393	5.8	91	0.00	5.68
111		Isobutyl alcohol	0.346	0.336	2.9	87	0.00	7.90
			Amount	Calc.	%Drift			
112		Tert Amyl Alcohol	400.000	364.805	8.8	85	0.00	8.01
			AvgRF	CCRF	%Dev			
113		1,4-Dioxane	0.107	0.113	-5.6	89	0.00	9.11
			Amount	Calc.	%Drift			
114		3,3-dimethyl-1-butanol	2000.000	1991.436	0.4	88	0.00	10.95

(#) = Out of Range SPCC's out = 0 CCC's out = 1
M0101655.D M-MAR6.M Thu Mar 22 13:27:14 2018

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69267-MB	X059392.D	1	03/21/18	MV	03/21/18	OP69267	SX2484

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	30%	14-67%
4165-62-2	Phenol-d5	18%	10-50%
118-79-6	2,4,6-Tribromophenol	91%	33-118%
4165-60-0	Nitrobenzene-d5	80%	42-108%
321-60-8	2-Fluorobiphenyl	82%	40-106%
1718-51-0	Terphenyl-d14	94%	39-121%

Method Blank Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69268-MB	4D3623.D	1	03/26/18	NJ	03/21/18	OP69268	S4D136

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	80% [a]	33-118%
4165-60-0	Nitrobenzene-d5	67% [a]	42-108%
321-60-8	2-Fluorobiphenyl	67% [a]	40-106%
1718-51-0	Terphenyl-d14	75% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Blank Spike Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69267-BS	X059391.D	1	03/21/18	MV	03/21/18	OP69267	SX2484

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
120-83-2	2,4-Dichlorophenol	50	43.7	87	53-103
105-67-9	2,4-Dimethylphenol	50	35.9	72	43-90
95-48-7	2-Methylphenol	50	28.5	57	43-90
	3&4-Methylphenol	100	50.1	50	36-88
108-95-2	Phenol	50	12.8	26	19-56
88-06-2	2,4,6-Trichlorophenol	50	47.7	95	59-107
85-68-7	Butyl Benzyl Phthalate	50	49.5	99	65-112
86-74-8	Carbazole	50	50.4	101	59-113
132-64-9	Dibenzofuran	50	46.1	92	61-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	51.0	102	61-117

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	14-67%
4165-62-2	Phenol-d5	22%	10-50%
118-79-6	2,4,6-Tribromophenol	99%	33-118%
4165-60-0	Nitrobenzene-d5	84%	42-108%
321-60-8	2-Fluorobiphenyl	87%	40-106%
1718-51-0	Terphenyl-d14	97%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69268-BS	4D3622.D	1	03/26/18	NJ	03/21/18	OP69268	S4D136

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	14.2	71	43-110
83-32-9	Acenaphthene	10	7.6	76	56-101
208-96-8	Acenaphthylene	10	7.4	74	54-104
120-12-7	Anthracene	5	3.8	76	67-106
56-55-3	Benzo(a)anthracene	5	3.9	78	65-106
50-32-8	Benzo(a)pyrene	5	3.3	66	58-111
205-99-2	Benzo(b)fluoranthene	5	3.6	72	59-113
191-24-2	Benzo(g,h,i)perylene	5	2.8	56	43-112
207-08-9	Benzo(k)fluoranthene	5	3.2	64	58-110
218-01-9	Chrysene	5	3.8	76	66-107
53-70-3	Dibenzo(a,h)anthracene	5	3.0	60	40-113
206-44-0	Fluoranthene	10	8.0	80	64-110
86-73-7	Fluorene	10	7.6	76	60-106
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.1	62	44-112
91-57-6	2-Methylnaphthalene	10	7.0	70	53-105
91-20-3	Naphthalene	10	7.3	73	56-105
85-01-8	Phenanthrene	10	7.8	78	62-105
129-00-0	Pyrene	10	7.6	76	62-109

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	88%	33-118%
4165-60-0	Nitrobenzene-d5	85%	42-108%
321-60-8	2-Fluorobiphenyl	83%	40-106%
1718-51-0	Terphenyl-d14	72%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69267-MS	X059404.D	1	03/22/18	MV	03/21/18	OP69267	SX2484
OP69267-MSD	X059405.D	1	03/22/18	MV	03/21/18	OP69267	SX2484
FA52509-1	X059403.D	1	03/22/18	MV	03/21/18	OP69267	SX2484

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	FA52509-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
120-83-2	2,4-Dichlorophenol	ND		96.2	87.8	91	96.2	72.2	75	20	53-103/26
105-67-9	2,4-Dimethylphenol	ND		96.2	75.9	79	96.2	61.1	64	22	43-90/27
95-48-7	2-Methylphenol	ND		96.2	66.3	69	96.2	52.2	54	24	43-90/28
	3&4-Methylphenol	ND		192	127	66	192	96.3	50	27	36-88/28
108-95-2	Phenol	ND		96.2	37.6	39	96.2	28.0	29	29	19-56/35
88-06-2	2,4,6-Trichlorophenol	ND		96.2	95.4	99	96.2	81.3	85	16	59-107/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	98.4	102	96.2	88.6	92	10	65-112/24
86-74-8	Carbazole	0.73		96.2	98.9	102	96.2	89.8	93	10	59-113/21
132-64-9	Dibenzofuran	ND		96.2	95.0	99	96.2	81.9	85	15	61-106/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	100	104	96.2	90.8	94	10	61-117/23

CAS No.	Surrogate Recoveries	MS	MSD	FA52509-1	Limits
367-12-4	2-Fluorophenol	50%	38%	23%	14-67%
4165-62-2	Phenol-d5	36%	26%	13%	10-50%
118-79-6	2,4,6-Tribromophenol	102%	92%	83%	33-118%
4165-60-0	Nitrobenzene-d5	86%	72%	76%	42-108%
321-60-8	2-Fluorobiphenyl	92%	77%	80%	40-106%
1718-51-0	Terphenyl-d14	99%	88%	61%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69268-MS	4D3638.D	1	03/26/18	NJ	03/21/18	OP69268	S4D136
OP69268-MSD	4D3639.D	1	03/26/18	NJ	03/21/18	OP69268	S4D136
FA52509-1	4D3637.D	1	03/26/18	NJ	03/21/18	OP69268	S4D136

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA52495-1, FA52495-2, FA52495-3

CAS No.	Compound	FA52509-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND		38.5	33.5	87	38.5	34.4	89	3	43-110/30
83-32-9	Acenaphthene	ND		19.2	16.0	83	19.2	16.3	85	2	56-101/24
208-96-8	Acenaphthylene	ND		19.2	15.0	78	19.2	15.3	80	2	54-104/25
120-12-7	Anthracene	ND		9.62	7.7	80	9.62	8.1	84	5	67-106/21
56-55-3	Benzo(a)anthracene	ND		9.62	7.4	77	9.62	7.6	79	3	65-106/22
50-32-8	Benzo(a)pyrene	ND		9.62	7.0	73	9.62	6.0	62	15	58-111/23
205-99-2	Benzo(b)fluoranthene	ND		9.62	8.3	86	9.62	6.7	70	21	59-113/24
191-24-2	Benzo(g,h,i)perylene	ND		9.62	5.1	53	9.62	4.7	49	8	43-112/24
207-08-9	Benzo(k)fluoranthene	ND		9.62	6.7	70	9.62	5.6	58	18	58-110/23
218-01-9	Chrysene	ND		9.62	7.3	76	9.62	7.5	78	3	66-107/22
53-70-3	Dibenzo(a,h)anthracene	ND		9.62	5.6	58	9.62	5.2	54	7	40-113/25
206-44-0	Fluoranthene	ND		19.2	16.3	85	19.2	14.9	77	9	64-110/22
86-73-7	Fluorene	ND		19.2	15.4	80	19.2	15.4	80	0	60-106/24
193-39-5	Indeno(1,2,3-cd)pyrene	ND		9.62	5.9	61	9.62	5.3	55	11	44-112/25
91-57-6	2-Methylnaphthalene	ND		19.2	15.0	78	19.2	15.3	80	2	53-105/26
91-20-3	Naphthalene	7.2		19.2	24.9	92	19.2	23.7	86	5	56-105/27
85-01-8	Phenanthrene	ND		19.2	16.1	84	19.2	16.4	85	2	62-105/22
129-00-0	Pyrene	ND		19.2	15.9	83	19.2	12.8	67	22*	62-109/21

CAS No.	Surrogate Recoveries	MS	MSD	FA52509-1	Limits
118-79-6	2,4,6-Tribromophenol	84%	90%	76% [a]	33-118%
4165-60-0	Nitrobenzene-d5	85%	88%	69% [a]	42-108%
321-60-8	2-Fluorobiphenyl	82%	78%	71% [a]	40-106%
1718-51-0	Terphenyl-d14	69%	55%	42% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: S4D131-DFTPP
Lab File ID: 4D3502.D
Instrument ID: GCMS4D
Injection Date: 03/19/18
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10682	37.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	10520	37.3		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	14329	50.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	28214	100.0		Pass
199	5.0 - 9.0% of mass 198	2047	7.26		Pass
275	10.0 - 30.0% of mass 198	6229	22.1		Pass
365	1.0 - 100.0% of mass 198	837	2.97		Pass
441	Present, but less than mass 443	3791	13.4	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	25091	88.9		Pass
443	17.0 - 23.0% of mass 442	4764	16.9	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
S4D131-IC131	4D3503.D	03/19/18	12:43	00:22	Initial cal 1
S4D131-IC131	4D3504.D	03/19/18	13:15	00:54	Initial cal 2
S4D131-IC131	4D3505.D	03/19/18	13:48	01:27	Initial cal 3
S4D131-ICC131	4D3506.D	03/19/18	14:21	02:00	Initial cal 4
S4D131-IC131	4D3507.D	03/19/18	14:54	02:33	Initial cal 5
S4D131-IC131	4D3508.D	03/19/18	15:27	03:06	Initial cal 6
S4D131-IC131	4D3509.D	03/19/18	16:00	03:39	Initial cal 7
S4D131-ICV131	4D3510.D	03/19/18	16:33	04:12	Initial cal verification 4

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: S4D136-DFTPP
Lab File ID: 4D3620.D
Instrument ID: GCMS4D
Injection Date: 03/26/18
Injection Time: 11:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	4708	39.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	4674	39.5		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	6060	51.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	11828	100.0		Pass
199	5.0 - 9.0% of mass 198	881	7.45		Pass
275	10.0 - 30.0% of mass 198	2867	24.2		Pass
365	1.0 - 100.0% of mass 198	287	2.43		Pass
441	Present, but less than mass 443	1426	12.1	(80.9) [b]	Pass
442	40.0 - 100.0% of mass 198	8963	75.8		Pass
443	17.0 - 23.0% of mass 442	1762	14.9	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
S4D136-CC131	4D3621.D	03/26/18	12:15	00:25	Continuing cal 4
OP69268-BS	4D3622.D	03/26/18	12:47	00:57	Blank Spike
OP69268-MB	4D3623.D	03/26/18	13:20	01:30	Method Blank
FA52495-2	4D3624.D	03/26/18	13:53	02:03	MW-37C (031518)
ZZZZZZ	4D3625.D	03/26/18	14:26	02:36	(unrelated sample)
ZZZZZZ	4D3628.D	03/26/18	16:05	04:15	(unrelated sample)
ZZZZZZ	4D3629.D	03/26/18	16:37	04:47	(unrelated sample)
ZZZZZZ	4D3630.D	03/26/18	17:10	05:20	(unrelated sample)
ZZZZZZ	4D3631.D	03/26/18	17:44	05:54	(unrelated sample)
ZZZZZZ	4D3632.D	03/26/18	18:17	06:27	(unrelated sample)
ZZZZZZ	4D3633.D	03/26/18	18:50	07:00	(unrelated sample)
ZZZZZZ	4D3634.D	03/26/18	19:23	07:33	(unrelated sample)
ZZZZZZ	4D3635.D	03/26/18	19:55	08:05	(unrelated sample)
ZZZZZZ	4D3636.D	03/26/18	20:29	08:39	(unrelated sample)
FA52509-1	4D3637.D	03/26/18	21:02	09:12	(used for QC only; not part of job FA52495)
OP69268-MS	4D3638.D	03/26/18	21:35	09:45	Matrix Spike
OP69268-MSD	4D3639.D	03/26/18	22:07	10:17	Matrix Spike Duplicate
ZZZZZZ	4D3640.D	03/26/18	22:40	10:50	(unrelated sample)
ZZZZZZ	4D3641.D	03/26/18	23:13	11:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	S4D136-DFTPP	**Injection Date:**	03/26/18
Lab File ID:	4D3620.D	**Injection Time:**	11:50
Instrument ID:	GCMS4D		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4D3642.D	03/26/18	23:45	11:55	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: S7G79-DFTPP
Lab File ID: 7G01740.D
Instrument ID: GCMS7G
Injection Date: 03/26/18
Injection Time: 14:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	60776	43.4		Pass
68	Less than 2.0% of mass 69	1002	0.72	(1.47) [a]	Pass
69	Mass 69 relative abundance	68005	48.6		Pass
70	Less than 2.0% of mass 69	341	0.24	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	74304	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	140000	100.0		Pass
199	5.0 - 9.0% of mass 198	9470	6.76		Pass
275	10.0 - 30.0% of mass 198	39264	28.0		Pass
365	1.0 - 100.0% of mass 198	5942	4.24		Pass
441	Present, but less than mass 443	21389	15.3	(76.9) [b]	Pass
442	40.0 - 100.0% of mass 198	135883	97.1		Pass
443	17.0 - 23.0% of mass 442	27827	19.9	(20.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
S7G79-IC79	7G01741.D	03/26/18	14:33	00:26	Initial cal 1
S7G79-IC79	7G01742.D	03/26/18	15:30	01:23	Initial cal 2
S7G79-IC79	7G01743.D	03/26/18	15:54	01:47	Initial cal 3
S7G79-ICC79	7G01744.D	03/26/18	16:18	02:11	Initial cal 4
S7G79-IC79	7G01745.D	03/26/18	16:42	02:35	Initial cal 5
S7G79-IC79	7G01746.D	03/26/18	17:05	02:58	Initial cal 6
S7G79-IC79	7G01747.D	03/26/18	17:29	03:22	Initial cal 7
S7G79-ICV79	7G01748.D	03/26/18	18:01	03:54	Initial cal verification 4
OP69330-BS	7G01749.D	03/26/18	18:28	04:21	Blank Spike
OP69330-MB	7G01750.D	03/26/18	18:52	04:45	Method Blank
FA52701-3	7G01751.D	03/26/18	19:16	05:09	(used for QC only; not part of job FA52495)
OP69330-MS	7G01752.D	03/26/18	19:40	05:33	Matrix Spike
OP69330-MSD	7G01753.D	03/26/18	20:03	05:56	Matrix Spike Duplicate
ZZZZZZ	7G01754.D	03/26/18	20:27	06:20	(unrelated sample)
ZZZZZZ	7G01755.D	03/26/18	20:50	06:43	(unrelated sample)
ZZZZZZ	7G01756.D	03/26/18	21:13	07:06	(unrelated sample)
ZZZZZZ	7G01757.D	03/26/18	21:37	07:30	(unrelated sample)
ZZZZZZ	7G01758.D	03/26/18	22:01	07:54	(unrelated sample)
ZZZZZZ	7G01759.D	03/26/18	22:25	08:18	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: S7G80-DFTPP
Lab File ID: 7G01767.D
Instrument ID: GCMS7G
Injection Date: 03/27/18
Injection Time: 12:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	80080	43.7		Pass
68	Less than 2.0% of mass 69	1274	0.69	(1.42) [a]	Pass
69	Mass 69 relative abundance	89649	48.9		Pass
70	Less than 2.0% of mass 69	478	0.26	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	99571	54.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	183403	100.0		Pass
199	5.0 - 9.0% of mass 198	12715	6.93		Pass
275	10.0 - 30.0% of mass 198	50973	27.8		Pass
365	1.0 - 100.0% of mass 198	7188	3.92		Pass
441	Present, but less than mass 443	26504	14.5	(74.1) [b]	Pass
442	40.0 - 100.0% of mass 198	170091	92.7		Pass
443	17.0 - 23.0% of mass 442	35784	19.5	(21.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
S7G80-CC79	7G01768.D	03/27/18	12:44	00:40	Continuing cal 4
OP69352-MB	7G01769.D	03/27/18	13:17	01:13	Method Blank
OP69352-BS	7G01770.D	03/27/18	13:40	01:36	Blank Spike
ZZZZZZ	7G01771.D	03/27/18	14:04	02:00	(unrelated sample)
ZZZZZZ	7G01772.D	03/27/18	14:28	02:24	(unrelated sample)
ZZZZZZ	7G01773.D	03/27/18	14:51	02:47	(unrelated sample)
ZZZZZZ	7G01774.D	03/27/18	15:15	03:11	(unrelated sample)
ZZZZZZ	7G01775.D	03/27/18	15:38	03:34	(unrelated sample)
ZZZZZZ	7G01777.D	03/27/18	16:25	04:21	(unrelated sample)
ZZZZZZ	7G01778.D	03/27/18	16:49	04:45	(unrelated sample)
ZZZZZZ	7G01779.D	03/27/18	17:13	05:09	(unrelated sample)
ZZZZZZ	7G01780.D	03/27/18	17:36	05:32	(unrelated sample)
ZZZZZZ	7G01781.D	03/27/18	18:00	05:56	(unrelated sample)
ZZZZZZ	7G01782.D	03/27/18	18:23	06:19	(unrelated sample)
ZZZZZZ	7G01784.D	03/27/18	19:10	07:06	(unrelated sample)
FA52403-2	7G01785.D	03/27/18	19:34	07:30	(used for QC only; not part of job FA52495)
ZZZZZZ	7G01786.D	03/27/18	19:57	07:53	(unrelated sample)
ZZZZZZ	7G01787.D	03/27/18	20:21	08:17	(unrelated sample)
ZZZZZZ	7G01788.D	03/27/18	20:44	08:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	S7G80-DFTPP	**Injection Date:**	03/27/18
Lab File ID:	7G01767.D	**Injection Time:**	12:04
Instrument ID:	GCMS7G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7G01790.D	03/27/18	21:31	09:27	(unrelated sample)
ZZZZZZ	7G01791.D	03/27/18	21:54	09:50	(unrelated sample)
FA52495-1	7G01792.D	03/27/18	22:18	10:14	MW-1D (031518)
FA52495-3	7G01793.D	03/27/18	22:41	10:37	MW-34A (031518)
ZZZZZZ	7G01794.D	03/27/18	23:05	11:01	(unrelated sample)
ZZZZZZ	7G01795.D	03/27/18	23:29	11:25	(unrelated sample)
ZZZZZZ	7G01796.D	03/27/18	23:53	11:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: S7G81-DFTPP
Lab File ID: 7G01801.D
Instrument ID: GCMS7G
Injection Date: 03/28/18
Injection Time: 11:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	89477	39.6		Pass
68	Less than 2.0% of mass 69	921	0.41	(0.91) [a]	Pass
69	Mass 69 relative abundance	101749	45.0		Pass
70	Less than 2.0% of mass 69	490	0.22	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	117997	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	225920	100.0		Pass
199	5.0 - 9.0% of mass 198	15619	6.91		Pass
275	10.0 - 30.0% of mass 198	64701	28.6		Pass
365	1.0 - 100.0% of mass 198	9214	4.08		Pass
441	Present, but less than mass 443	34589	15.3	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	221163	97.9		Pass
443	17.0 - 23.0% of mass 442	45968	20.3	(20.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
S7G81-CC79	7G01802.D	03/28/18	11:27	00:17	Continuing cal 4
ZZZZZZ	7G01803.D	03/28/18	11:58	00:48	(unrelated sample)
ZZZZZZ	7G01804.D	03/28/18	12:22	01:12	(unrelated sample)
FA52495-3	7G01805.D	03/28/18	12:45	01:35	MW-34A (031518)
ZZZZZZ	7G01806.D	03/28/18	13:09	01:59	(unrelated sample)
ZZZZZZ	7G01808.D	03/28/18	13:57	02:47	(unrelated sample)
ZZZZZZ	7G01809.D	03/28/18	14:20	03:10	(unrelated sample)
ZZZZZZ	7G01810.D	03/28/18	14:44	03:34	(unrelated sample)
ZZZZZZ	7G01811.D	03/28/18	15:07	03:57	(unrelated sample)
OP69373-MB	7G01812.D	03/28/18	15:31	04:21	Method Blank
OP69373-BS	7G01813.D	03/28/18	15:55	04:45	Blank Spike
ZZZZZZ	7G01817.D	03/28/18	17:30	06:20	(unrelated sample)
ZZZZZZ	7G01818.D	03/28/18	17:53	06:43	(unrelated sample)
ZZZZZZ	7G01819.D	03/28/18	18:17	07:07	(unrelated sample)
ZZZZZZ	7G01821.D	03/28/18	19:05	07:55	(unrelated sample)
S7G81-ECC79	7G01822.D	03/28/18	19:28	08:18	Ending cal 4

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX2484-DFTPP
Lab File ID: X059366.D
Instrument ID: GCMSX
Injection Date: 03/21/18
Injection Time: 10:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	23400	52.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	27883	62.2		Pass
70	Less than 2.0% of mass 69	146	0.33	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	24952	55.7		Pass
197	Less than 1.0% of mass 198	269	0.60		Pass
198	Base peak, 100% relative abundance	44800	100.0		Pass
199	5.0 - 9.0% of mass 198	2861	6.39		Pass
275	10.0 - 30.0% of mass 198	9591	21.4		Pass
365	1.0 - 100.0% of mass 198	923	2.06		Pass
441	Present, but less than mass 443	4395	9.81	(82.9) [b]	Pass
442	40.0 - 100.0% of mass 198	27373	61.1		Pass
443	17.0 - 23.0% of mass 442	5300	11.8	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX2484-IC2484	X059367.D	03/21/18	10:59	00:16	Initial cal 1
SX2484-IC2484	X059368.D	03/21/18	11:24	00:41	Initial cal 5
SX2484-IC2484	X059369.D	03/21/18	11:49	01:06	Initial cal 10
SX2484-IC2484	X059370.D	03/21/18	12:14	01:31	Initial cal 25
SX2484-ICC2484	X059371.D	03/21/18	12:39	01:56	Initial cal 50
SX2484-IC2484	X059372.D	03/21/18	13:04	02:21	Initial cal 60
SX2484-IC2484	X059373.D	03/21/18	13:30	02:47	Initial cal 75
SX2484-IC2484	X059374.D	03/21/18	13:55	03:12	Initial cal 100
SX2484-ICV2484	X059376.D	03/21/18	14:45	04:02	Initial cal verification 50
SX2484-ICV2484	X059377.D	03/21/18	15:10	04:27	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX2484-DFTPP
Lab File ID: X059378.D
Instrument ID: GCMSX
Injection Date: 03/21/18
Injection Time: 15:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21632	50.8		Pass
68	Less than 2.0% of mass 69	148	0.35	(0.57) [a]	Pass
69	Mass 69 relative abundance	25760	60.5		Pass
70	Less than 2.0% of mass 69	62	0.15	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	24493	57.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	42565	100.0		Pass
199	5.0 - 9.0% of mass 198	2990	7.02		Pass
275	10.0 - 30.0% of mass 198	9212	21.6		Pass
365	1.0 - 100.0% of mass 198	1034	2.43		Pass
441	Present, but less than mass 443	4296	10.1	(76.1) [b]	Pass
442	40.0 - 100.0% of mass 198	28888	67.9		Pass
443	17.0 - 23.0% of mass 442	5645	13.3	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX2484-CC2484	X059379.D	03/21/18	15:51	00:17	Continuing cal 50
OP69264-BS	X059380.D	03/21/18	16:16	00:42	Blank Spike
OP69264-MB	X059381.D	03/21/18	16:41	01:07	Method Blank
ZZZZZZ	X059382.D	03/21/18	17:06	01:32	(unrelated sample)
ZZZZZZ	X059383.D	03/21/18	17:31	01:57	(unrelated sample)
ZZZZZZ	X059384.D	03/21/18	17:57	02:23	(unrelated sample)
ZZZZZZ	X059385.D	03/21/18	18:22	02:48	(unrelated sample)
ZZZZZZ	X059386.D	03/21/18	18:47	03:13	(unrelated sample)
ZZZZZZ	X059388.D	03/21/18	19:37	04:03	(unrelated sample)
ZZZZZZ	X059389.D	03/21/18	20:02	04:28	(unrelated sample)
OP69267-BS	X059391.D	03/21/18	20:52	05:18	Blank Spike
OP69267-MB	X059392.D	03/21/18	21:17	05:43	Method Blank
ZZZZZZ	X059393.D	03/21/18	21:42	06:08	(unrelated sample)
ZZZZZZ	X059394.D	03/21/18	22:07	06:33	(unrelated sample)
ZZZZZZ	X059395.D	03/21/18	22:32	06:58	(unrelated sample)
ZZZZZZ	X059396.D	03/21/18	22:57	07:23	(unrelated sample)
ZZZZZZ	X059397.D	03/21/18	23:22	07:48	(unrelated sample)
ZZZZZZ	X059398.D	03/21/18	23:47	08:13	(unrelated sample)
ZZZZZZ	X059399.D	03/22/18	00:12	08:38	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SX2484-DFTPP	**Injection Date:**	03/21/18
Lab File ID:	X059378.D	**Injection Time:**	15:34
Instrument ID:	GCMSX		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	X059400.D	03/22/18	00:37	09:03	(unrelated sample)
ZZZZZZ	X059401.D	03/22/18	01:02	09:28	(unrelated sample)
FA52509-1	X059403.D	03/22/18	01:51	10:17	(used for QC only; not part of job FA52495)
OP69267-MS	X059404.D	03/22/18	02:16	10:42	Matrix Spike
OP69267-MSD	X059405.D	03/22/18	02:41	11:07	Matrix Spike Duplicate
ZZZZZZ	X059406.D	03/22/18	03:06	11:32	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample: SX2484-DFTPP
Lab File ID: X059407.D
Instrument ID: GCMSX
Injection Date: 03/22/18
Injection Time: 03:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27123	47.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33848	58.7		Pass
70	Less than 2.0% of mass 69	131	0.23	(0.39) [a]	Pass
127	40.0 - 60.0% of mass 198	32629	56.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	57629	100.0		Pass
199	5.0 - 9.0% of mass 198	4342	7.53		Pass
275	10.0 - 30.0% of mass 198	11974	20.8		Pass
365	1.0 - 100.0% of mass 198	1341	2.33		Pass
441	Present, but less than mass 443	5764	10.0	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	35963	62.4		Pass
443	17.0 - 23.0% of mass 442	7225	12.5	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX2484-CC2484	X059408.D	03/22/18	03:45	00:16	Continuing cal 50
FA52495-1	X059409.D	03/22/18	04:10	00:41	MW-1D (031518)
FA52495-3	X059411.D	03/22/18	04:59	01:30	MW-34A (031518)
ZZZZZZ	X059414.D	03/22/18	06:13	02:44	(unrelated sample)
ZZZZZZ	X059415.D	03/22/18	06:38	03:09	(unrelated sample)
ZZZZZZ	X059416.D	03/22/18	07:03	03:34	(unrelated sample)
ZZZZZZ	X059417.D	03/22/18	07:28	03:59	(unrelated sample)
OP69282-BS	X059418.D	03/22/18	07:54	04:25	Blank Spike
OP69282-MB	X059419.D	03/22/18	08:19	04:50	Method Blank
ZZZZZZ	X059420.D	03/22/18	08:44	05:15	(unrelated sample)
ZZZZZZ	X059421.D	03/22/18	09:08	05:39	(unrelated sample)
ZZZZZZ	X059422.D	03/22/18	09:33	06:04	(unrelated sample)
ZZZZZZ	X059423.D	03/22/18	09:58	06:29	(unrelated sample)
ZZZZZZ	X059424.D	03/22/18	10:23	06:54	(unrelated sample)
ZZZZZZ	X059425.D	03/22/18	10:48	07:19	(unrelated sample)
ZZZZZZ	X059426.D	03/22/18	11:13	07:44	(unrelated sample)
ZZZZZZ	X059427.D	03/22/18	11:37	08:08	(unrelated sample)
FA52495-2	X059428.D	03/22/18	12:02	08:33	MW-37C (031518)
ZZZZZZ	X059429.D	03/22/18	12:27	08:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample:	SX2484-DFTPP	**Injection Date:**	03/22/18
Lab File ID:	X059407.D	**Injection Time:**	03:29
Instrument ID:	GCMSX		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA52445-3	X059430.D	03/22/18	12:52	09:23	(used for QC only; not part of job FA52495)
ZZZZZZ	X059431.D	03/22/18	13:17	09:48	(unrelated sample)
ZZZZZZ	X059432.D	03/22/18	13:42	10:13	(unrelated sample)
ZZZZZZ	X059433.D	03/22/18	14:07	10:38	(unrelated sample)
SX2484-ECC2484	X059434.D	03/22/18	14:32	11:03	Ending cal 50

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	S4D136-CC131	**Injection Date:**	03/26/18
Lab File ID:	4D3621.D	**Injection Time:**	12:15
Instrument ID:	GCMS4D	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	164381	5.41	71326	6.95	118645	8.26	76365	11.05	56147	13.47
Check Std [b]	146401	5.37	62971	6.92	103072	8.22	72157	10.99	54985	13.39
Upper Limit [c]	292802	5.54	125942	7.09	206144	8.39	144314	11.16	109970	13.56
Lower Limit [d]	73201	5.20	31486	6.75	51536	8.05	36079	10.82	27493	13.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP69268-BS	159118	5.37	68946	6.92	109957	8.22	74191	10.99	56214	13.39
OP69268-MB	169629	5.37	74505	6.92	120159	8.22	82300	10.99	59559	13.39
FA52495-2	159309	5.37	70727	6.92	114974	8.22	80139	10.99	57821	13.39
ZZZZZZ	162230	5.37	72746	6.92	117903	8.22	84012	10.99	62944	13.39
ZZZZZZ	178530	5.37	76744	6.92	107100	8.22	75314	10.99	59408	13.39
ZZZZZZ	176961	5.37	68416	6.92	121553	8.22	88423	10.99	58502	13.39
ZZZZZZ	163225	5.37	68873	6.92	109765	8.22	71218	10.99	53908	13.39
ZZZZZZ	160369	5.37	71505	6.92	100042	8.22	78656	10.99	58650	13.39
ZZZZZZ	176051	5.37	75553	6.92	126308	8.22	90062	10.99	61972	13.39
ZZZZZZ	171678	5.37	76631	6.92	124563	8.22	79360	10.99	55839	13.39
ZZZZZZ	164864	5.37	70954	6.92	109492	8.22	81628	10.99	58678	13.39
ZZZZZZ	165624	5.37	72340	6.92	116197	8.22	75004	10.99	53584	13.39
ZZZZZZ	176803	5.37	74207	6.92	105454	8.22	77772	10.99	59898	13.39
FA52509-1	169364	5.37	65633	6.92	112217	8.22	79660	10.99	52282	13.39
OP69268-MS	177170	5.37	74782	6.92	120722	8.22	77527	10.99	55797	13.39
OP69268-MSD	163789	5.37	75065	6.92	113491	8.22	84598	10.99	60082	13.39
ZZZZZZ	164325	5.37	73002	6.92	119012	8.22	75190	10.99	54396	13.39
ZZZZZZ	168532	5.37	75899	6.92	119972	8.22	89394	10.99	64147	13.39
ZZZZZZ	163117	5.37	74070	6.92	119111	8.22	87601	10.99	64003	13.39

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: S4D131-ICC131 4D3506.D 03/19/18 14:21
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	S7G80-CC79	**Injection Date:**	03/27/18
Lab File ID:	7G01768.D	**Injection Time:**	12:44
Instrument ID:	GCMS7G	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	174029	5.39	94620	6.91	181944	8.19	274070	10.74	290946	12.95
Check Std [b]	192899	5.38	101512	6.90	195117	8.18	274690	10.72	280818	12.92
Upper Limit [c]	385798	5.55	203024	7.07	390234	8.35	549380	10.89	561636	13.09
Lower Limit [d]	96450	5.21	50756	6.73	97559	8.01	137345	10.55	140409	12.75

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP69352-MB	181585	5.38	93211	6.90	176928	8.18	247936	10.73	247769	12.93
OP69352-BS	191846	5.39	100042	6.91	191395	8.19	271846	10.73	275127	12.93
ZZZZZZ	147217	5.38	74421	6.90	143928	8.18	220389	10.74	232130	12.98
ZZZZZZ	202683	5.37	101781	6.89	193431	8.18	274868	10.72	280182	12.93
ZZZZZZ	200814	5.37	101484	6.89	193431	8.17	270497	10.72	278868	12.92
ZZZZZZ	194358	5.37	98933	6.89	189695	8.18	266619	10.72	273699	12.93
ZZZZZZ	186287	5.37	93991	6.89	178458	8.17	262542	10.72	264181	12.93
ZZZZZZ	215404	5.38	113116	6.90	219035	8.19	294538	10.73	292160	12.94
ZZZZZZ	214204	5.39	112704	6.91	217531	8.19	293548	10.73	291663	12.94
ZZZZZZ	211692	5.38	110626	6.89	210053	8.17	288731	10.72	288163	12.93
ZZZZZZ	196248	5.37	103277	6.89	196480	8.17	262520	10.72	260231	12.92
ZZZZZZ	190315	5.38	102381	6.90	190041	8.18	254854	10.72	260731	12.94
ZZZZZZ	199582	5.38	100280	6.89	194556	8.18	256640	10.73	264946	12.94
ZZZZZZ	214021	5.38	107602	6.90	204636	8.18	278660	10.72	279380	12.93
FA52403-2	190294	5.38	95993	6.90	182003	8.18	252463	10.73	255759	12.94
ZZZZZZ	198645	5.39	98668	6.90	184645	8.18	256246	10.73	259406	12.93
ZZZZZZ	185058	5.37	92691	6.89	173813	8.17	243391	10.71	246367	12.91
ZZZZZZ	170348	5.38	87232	6.91	163750	8.19	231179	10.73	235373	12.93
ZZZZZZ	243305	5.38	127488	6.91	242533	8.18	320836	10.73	318190	12.93
ZZZZZZ	217538	5.38	114310	6.90	219775	8.18	292443	10.73	288444	12.93
FA52495-1	187040	5.40	98061	6.91	188784	8.19	259634	10.74	260348	12.94
FA52495-3	201206	5.38	99181	6.90	185240	8.18	258046	10.72	257284	12.93
ZZZZZZ	186117	5.38	97793	6.90	186400	8.18	253757	10.73	248943	12.93
ZZZZZZ	175132	5.32	91909	6.84	174315	8.12	237354	10.66	236420	12.87
ZZZZZZ	182907	5.39	94572	6.91	178269	8.19	244073	10.73	241271	12.94

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: S7G79-ICC79 7G01744.D 03/26/18 16:18

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	S7G80-CC79	**Injection Date:**	03/27/18
Lab File ID:	7G01768.D	**Injection Time:**	12:44
Instrument ID:	GCMS7G	**Method:**	SW846 8270D BY SIM

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	S7G81-CC79	**Injection Date:**	03/28/18
Lab File ID:	7G01802.D	**Injection Time:**	11:27
Instrument ID:	GCMS7G	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	174029	5.39	94620	6.91	181944	8.19	274070	10.74	290946	12.95
Check Std [b]	184617	5.43	99754	6.95	191708	8.23	277256	10.78	290081	12.97
Upper Limit [c]	369234	5.60	199508	7.12	383416	8.40	554512	10.95	580162	13.14
Lower Limit [d]	92309	5.26	49877	6.78	95854	8.06	138628	10.61	145041	12.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
ZZZZZZ	259560	5.43	131068	6.95	242456	8.23	351263	10.78	361235	12.98
ZZZZZZ	193864	5.43	97087	6.94	179744	8.23	263123	10.77	269176	12.97
FA52495-3	182090	5.42	91847	6.94	169250	8.22	250078	10.76	259731	12.96
ZZZZZZ	215491	5.42	113625	6.94	214276	8.22	306805	10.76	312673	12.96
ZZZZZZ	216881	5.43	113760	6.95	214424	8.23	311051	10.77	324332	12.97
ZZZZZZ	205617	5.43	105461	6.95	195539	8.23	295028	10.78	307652	12.97
ZZZZZZ	199252	5.42	104492	6.94	194382	8.22	279340	10.76	289705	12.96
ZZZZZZ	194638	5.43	101651	6.94	198638	8.23	264399	10.77	274802	12.96
OP69373-MB	187869	5.43	96746	6.95	181199	8.23	270373	10.77	275269	12.97
OP69373-BS	189680	5.42	99992	6.94	189900	8.22	277537	10.77	288714	12.96
ZZZZZZ	251304	5.42	142382	6.94	246179	8.22	387530	10.77	399370	12.97
ZZZZZZ	259219	5.43	146692	6.95	252291	8.23	391443	10.77	411479	12.98
ZZZZZZ	259188	5.43	147545	6.95	258029	8.23	403027	10.77	413741	12.98
ZZZZZZ	215202	5.42	117988	6.94	211483	8.22	318895	10.76	324897	12.96
S7G81-ECC79	205116	5.43	109810	6.95	209176	8.23	314254	10.77	326830	12.97

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: S7G79-ICC79 7G01744.D 03/26/18 16:18
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX2484-CC2484	**Injection Date:**	03/21/18
Lab File ID:	X059379.D	**Injection Time:**	15:51
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	109536	5.15	422459	6.57	225843	8.60	407142	10.31	348454	13.43	319218	15.35
Check Std [b]	99142	5.15	391062	6.57	216272	8.60	397554	10.31	352387	13.43	325122	15.35
Upper Limit [c]	198284	5.32	782124	6.74	432544	8.77	795108	10.48	704774	13.60	650244	15.52
Lower Limit [d]	49571	4.98	195531	6.40	108136	8.43	198777	10.14	176194	13.26	162561	15.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP69264-BS	102760	5.15	390898	6.57	198915	8.60	353660	10.30	296007	13.43	280704	15.35
OP69264-MB	103778	5.15	402885	6.57	217186	8.60	405763	10.30	353326	13.43	316105	15.35
ZZZZZZ	103387	5.14	406751	6.57	216857	8.60	380732	10.30	324937	13.42	300989	15.35
ZZZZZZ	105449	5.15	402232	6.57	211061	8.60	387098	10.31	343197	13.43	312306	15.36
ZZZZZZ	103991	5.15	398581	6.57	211065	8.60	381281	10.30	332245	13.43	305367	15.35
ZZZZZZ	107408	5.15	425007	6.57	224769	8.60	408336	10.30	344559	13.43	314781	15.35
ZZZZZZ	103347	5.15	398845	6.57	205648	8.60	371943	10.30	334188	13.42	310360	15.35
ZZZZZZ	104061	5.15	401363	6.57	208340	8.60	380400	10.30	334084	13.42	308805	15.35
ZZZZZZ	106820	5.15	400372	6.57	210780	8.60	385172	10.30	329226	13.43	306479	15.35
OP69267-BS	101731	5.15	385644	6.57	199531	8.60	348873	10.31	297339	13.43	274493	15.35
OP69267-MB	113926	5.14	429759	6.57	222613	8.60	400852	10.30	338534	13.42	306144	15.35
ZZZZZZ	140583	5.15	534372	6.57	278638	8.60	497114	10.30	425850	13.43	384267	15.35
ZZZZZZ	94572	5.14	369437	6.57	196226	8.60	355429	10.30	299669	13.42	268563	15.35
ZZZZZZ	98945	5.14	376635	6.57	195650	8.60	355536	10.30	303521	13.42	272548	15.34
ZZZZZZ	96922	5.14	374455	6.57	198926	8.60	355605	10.30	305087	13.42	274053	15.34
ZZZZZZ	100891	5.15	378239	6.57	196792	8.60	351660	10.30	299037	13.42	266363	15.34
ZZZZZZ	102394	5.15	392395	6.57	202292	8.60	357609	10.30	297357	13.42	265076	15.34
ZZZZZZ	106048	5.14	404865	6.57	208125	8.60	368803	10.29	307925	13.42	274468	15.34
ZZZZZZ	100754	5.15	388743	6.57	200566	8.60	355417	10.30	298323	13.42	267510	15.34
ZZZZZZ	104476	5.15	402397	6.57	206189	8.60	376043	10.30	308181	13.42	278243	15.34
FA52509-1	100693	5.15	387486	6.57	198124	8.60	353686	10.30	293442	13.42	265470	15.34
OP69267-MS	95039	5.15	366162	6.57	189100	8.60	341633	10.30	288854	13.43	260837	15.35
OP69267-MSD	98790	5.15	372375	6.57	193058	8.60	333814	10.30	281454	13.43	254207	15.35
ZZZZZZ	101611	5.14	391114	6.57	201247	8.60	358434	10.30	300019	13.42	267408	15.34

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX2484-ICC2484 X059371.D 03/21/18 12:39

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX2484-CC2484	**Injection Date:**	03/21/18
Lab File ID:	X059379.D	**Injection Time:**	15:51
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX2484-CC2484	**Injection Date:**	03/22/18
Lab File ID:	X059408.D	**Injection Time:**	03:45
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	109536	5.15	422459	6.57	225843	8.60	407142	10.31	348454	13.43	319218	15.35
Check Std [b]	110582	5.15	428406	6.57	237189	8.60	430576	10.31	368071	13.43	333217	15.35
Upper Limit [c]	221164	5.32	856812	6.74	474378	8.77	861152	10.48	736142	13.60	666434	15.52
Lower Limit [d]	55291	4.98	214203	6.40	118595	8.43	215288	10.14	184036	13.26	166609	15.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
FA52495-1	94714	5.14	365401	6.57	187115	8.60	327897	10.30	270170	13.42	243343	15.34
FA52495-3	108926	5.15	434464	6.60	225248	8.60	407663	10.30	342998	13.42	310862	15.34
ZZZZZZ	99489	5.14	381645	6.57	195327	8.60	351100	10.29	289787	13.42	254697	15.34
ZZZZZZ	87601	5.14	347988	6.57	179571	8.60	326799	10.29	284020	13.42	253886	15.34
ZZZZZZ	92306	5.14	354213	6.57	185120	8.60	330596	10.29	276967	13.42	245858	15.34
ZZZZZZ	91595	5.14	358365	6.57	187213	8.60	336691	10.30	280481	13.42	250879	15.34
OP69282-BS	89659	5.15	343802	6.57	174209	8.60	310152	10.31	265616	13.43	238288	15.35
OP69282-MB	92904	5.14	363016	6.57	185729	8.60	332545	10.29	273888	13.42	245034	15.34
ZZZZZZ	92188	5.14	354745	6.57	183102	8.60	327705	10.29	277535	13.42	245631	15.34
ZZZZZZ	97746	5.14	376575	6.57	192606	8.60	339497	10.30	286741	13.42	255384	15.34
ZZZZZZ	99055	5.15	382719	6.57	197446	8.60	357624	10.30	314414	13.42	281749	15.35
ZZZZZZ	122704	5.15	456051	6.57	231573	8.60	409747	10.30	347467	13.42	311015	15.35
ZZZZZZ	91243	5.14	348898	6.57	179650	8.60	326610	10.30	288135	13.42	258501	15.34
ZZZZZZ	90262	5.14	347429	6.57	177693	8.60	327840	10.29	289738	13.42	262639	15.34
ZZZZZZ	100044	5.15	390442	6.57	199451	8.60	354492	10.30	294484	13.42	259320	15.34
ZZZZZZ	95443	5.15	373370	6.57	204442	8.60	362188	10.30	305147	13.43	261112	15.35
FA52495-2	86351	5.14	337655	6.57	177494	8.60	327549	10.30	279909	13.43	249297	15.35
ZZZZZZ	95012	5.14	366979	6.56	189645	8.60	336179	10.30	281033	13.42	248893	15.34
FA52445-3	99546	5.14	379465	6.57	202702	8.60	365493	10.30	308651	13.42	265219	15.35
ZZZZZZ	88594	5.14	336806	6.57	175438	8.60	324743	10.30	278108	13.42	243382	15.34
ZZZZZZ	91025	5.14	353438	6.57	183437	8.60	335199	10.29	288008	13.42	252288	15.34
ZZZZZZ	98732	5.14	380006	6.57	195305	8.60	344061	10.30	284852	13.42	252531	15.34
SX2484-ECC2484	110041	5.15	423703	6.57	233235	8.60	433415	10.31	370036	13.43	323898	15.35

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX2484-ICC2484 X059371.D 03/21/18 12:39
(b) Check Std Limit = -50 to + 100% of initial cal area.

Internal Standard Area Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Check Std:	SX2484-CC2484	**Injection Date:**	03/22/18
Lab File ID:	X059408.D	**Injection Time:**	03:45
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Surrogate Recovery Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
FA52495-1	X059409.D	19	14	92	68	81	60
FA52495-2	X059428.D	29	19	92	71	76	63
FA52495-3	X059411.D	27	17	97	80	90	62
OP69267-BS	X059391.D	36	22	99	84	87	97
OP69267-MB	X059392.D	30	18	91	80	82	94
OP69267-MS	X059404.D	50	36	102	86	92	99
OP69267-MSD	X059405.D	38	26	92	72	77	88

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-67%
S2 = Phenol-d5	10-50%
S3 = 2,4,6-Tribromophenol	33-118%
S4 = Nitrobenzene-d5	42-108%
S5 = 2-Fluorobiphenyl	40-106%
S6 = Terphenyl-d14	39-121%

Surrogate Recovery Summary

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA52495-1	7G01792.D	0* [a]	0* [a]	0* [a]	0* [a]
FA52495-2	4D3624.D	82 [b]	68 [b]	69 [b]	52 [b]
FA52495-3	7G01805.D	0* [a]	0* [a]	0* [a]	0* [a]
FA52495-3	7G01793.D	0* [a]	0* [a]	0* [a]	0* [a]
OP69268-BS	4D3622.D	88	85	83	72
OP69268-MB	4D3623.D	80 [b]	67 [b]	67 [b]	75 [b]
OP69268-MS	4D3638.D	84	85	82	69
OP69268-MSD	4D3639.D	90	88	78	55

Surrogate Compounds	Recovery Limits
S1 = 2,4,6-Tribromophenol	33-118%
S2 = Nitrobenzene-d5	42-108%
S3 = 2-Fluorobiphenyl	40-106%
S4 = Terphenyl-d14	39-121%

(a) Outside control limits due to dilution.
(b) Surrogate recoveries corrected for actual spike amount.

Initial Calibration Summary

Job Number: FA52495 **Sample:** S4D131-ICC131
Account: CSXT CSX Transportation **Lab FileID:** 4D3506.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA07

Method : C:\msdchem\1\METHODS\simpahf0319.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Mar 21 10:50:29 2018
Response via : Initial Calibration

Calibration Files
L1 =4d3503.D L2 =4d3504.D L3 =4d3505.D L4 =4d3506.D
L5 =4d3507.D L6 =4d3508.D L7 =4d3509.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.461	0.366	0.352	0.405	0.388	0.371	0.357	0.386	9.85
3)P Naphthalene	1.672	1.272	1.168	1.279	1.196	1.131	1.011	1.247	16.72
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
Response Ratio = 0.00000 + 1.29178 *A + -0.02824 *A^2									
4)P 2-Methylnaphthale	1.067	0.812	0.742	0.820	0.747	0.714	0.620	0.789	17.70
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 0.82639 *A + -0.02069 *A^2									
5)P 1-Methylnaphthale	0.970	0.737	0.669	0.739	0.687	0.645	0.572	0.717	17.47
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 0.74486 *A + -0.01735 *A^2									
6) I Acenaphthene-d10	----------ISTD----------								
7)S 2-Fluorobiphenyl	2.671	2.018	1.797	1.942	1.783	1.672	1.455	1.905	20.14
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 1.96535 *A + -0.05129 *A^2									
8) 1,1'-Biphenyl	2.848	2.173	1.931	2.102	1.930	1.799	1.567	2.050	19.71
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 2.12317 *A + -0.05595 *A^2									
9)P Acenaphthylene	3.499	2.791	2.545	2.801	2.589	2.417	2.123	2.681	16.00
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 2.82630 *A + -0.07070 *A^2									
10)P Acenaphthene	2.236	1.666	1.516	1.665	1.538	1.426	1.238	1.612	19.36
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 1.68768 *A + -0.04519 *A^2									
11) Dibenzofuran	3.311	2.526	2.267	2.458	2.297	2.147	1.888	2.413	18.56
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 2.49965 *A + -0.06143 *A^2									
12)P Fluorene	2.516	1.936	1.758	1.922	1.789	1.643	1.439	1.858	18.11
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 1.94733 *A + -0.05110 *A^2									
13) I Phenanthrene-d10	----------ISTD----------								
14)S 2,4,6-Tribromophe	0.201	0.173	0.166	0.185	0.171	0.162	0.149	0.172	9.68
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992									
Response Ratio = 0.00000 + 0.18255 *A + -0.00168 *A^2									

Initial Calibration Summary

Job Number: FA52495 **Sample:** S4D131-ICC131
Account: CSXT CSX Transportation **Lab FileID:** 4D3506.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

```
15)P Pentachlorophenol 0.170 0.204 0.221 0.261 0.244 0.230 0.206 0.219  13.57
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.26051 *A + -0.00219 *A^2

16)P Phenanthrene      2.171 1.634 1.453 1.559 1.416 1.338 1.151 1.532  21.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.57905 *A + -0.04303 *A^2

17)P Anthracene        2.057 1.654 1.520 1.713 1.601 1.524 1.365 1.633  13.33
18)  Carbazole         1.914 1.553 1.453 1.649 1.536 1.467 1.341 1.559  11.76
19)P Fluoranthene      2.074 1.640 1.474 1.625 1.478 1.402 1.206 1.557  17.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.64312 *A + -0.04382 *A^2


20) I   Chrysene-d12          ----------------ISTD--------------------
21)P Pyrene            3.500 2.739 2.441 2.595 2.363 2.218 1.919 2.539  19.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 2.62423 *A + -0.07090 *A^2

22)S Terphenyl-d14     1.152 0.906 0.822 0.885 0.821 0.775 0.665 0.861  17.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.90849 *A + -0.02440 *A^2

23)P Benzo[a]anthracen 2.189 1.722 1.664 1.909 1.835 1.777 1.684 1.826   9.96
24)P Chrysene          2.315 1.797 1.650 1.856 1.771 1.684 1.561 1.805  13.62

25) I   Perylene-d12          ----------------ISTD--------------------
26)P Benzo[b]fluoranth 1.882 1.630 1.524 1.954 1.825 1.801 1.720 1.762   8.44
27)P Benzo[k]fluoranth 2.299 1.854 1.818 1.976 1.962 1.897 1.742 1.935   9.29
28)P Benzo[a]pyrene    1.604 1.364 1.384 1.687 1.637 1.598 1.544 1.546   8.08
29)P Indeno[1,2,3-cd]p 1.015 1.025 1.043 1.412 1.355 1.436 1.403 1.241  16.21
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 1.36636 *A + 0.00821 *A^2

30)P Dibenz[a,h]anthra 1.050 1.012 1.117 1.445 1.408 1.423 1.439 1.271  15.73
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.37889 *A + 0.01239 *A^2

31)P Benzo[g,h,i]peryl 1.951 1.672 1.615 1.925 1.841 1.808 1.727 1.791   7.05
----------------------------------------------------------------------------
(#) = Out of Range

          simpahf0319.m        Wed Mar 21 10:51:49 2018
```

7.7.1

7

Initial Calibration Verification

Job Number: FA52495 **Sample:** S4D131-ICV131
Account: CSXT CSX Transportation **Lab FileID:** 4D3510.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\4D131\4d3510.D Vial: 9
Acq On : 19 Mar 2018 4:33 pm Operator: fouads
Sample : icv131-4 Inst : MSBNA07
Misc : op69201,s4d131,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf0319.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Wed Mar 21 10:50:29 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	95	0.00	5.41
2	S	Nitrobenzene-d5		NA				
			Amount	Calc.	%Drift			
3	P	Naphthalene	10.000	9.421	5.8	85	0.00	5.43
4	P	2-Methylnaphthalene	10.000	9.011	9.9	81	0.00	6.02
5	P	1-Methylnaphthalene	10.000	8.464	15.4	77	0.00	6.12
			Amount	Calc.	%Drift			
6	I	Acenaphthene-d10	4.000	4.000	0.0	95	0.00	6.95
			Amount	Calc.	%Drift			
7	S	2-Fluorobiphenyl		NA				
8		1,1'-Biphenyl		NA				
9	P	Acenaphthylene	10.000	9.305	7.0	84	0.00	6.82
10	P	Acenaphthene	10.000	9.553	4.5	86	0.00	6.98
11		Dibenzofuran	10.000	9.271	7.3	85	0.00	7.12
12	P	Fluorene	10.000	9.589	4.1	87	0.00	7.43
			Amount	Calc.	%Drift			
13	I	Phenanthrene-d10	4.000	4.000	0.0	97	0.00	8.26
			Amount	Calc.	%Drift			
14	S	2,4,6-Tribromophenol		NA				
15	P	Pentachlorophenol	20.000	18.201	13.2	68	0.00	8.15
16	P	Phenanthrene	10.000	9.423	5.8	86	0.00	8.28
			Amount	Calc.	%Drift			
17	P	Anthracene	5.000	4.415	11.7	81	0.00	8.32
18		Carbazole	5.000	4.659	6.8	85	0.00	8.46
			Amount	Calc.	%Drift			
19	P	Fluoranthene	10.000	9.261	7.4	85	0.00	9.35
			Amount	Calc.	%Drift			
20	I	Chrysene-d12	4.000	4.000	0.0	98	0.00	11.04
			Amount	Calc.	%Drift			
21	P	Pyrene	10.000	9.047	9.5	84	0.00	9.58

Initial Calibration Verification

Job Number: FA52495 **Sample:** S4D131-ICV131
Account: CSXT CSX Transportation **Lab FileID:** 4D3510.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

22	S	Terphenyl-d14		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
23	P	Benzo[a]anthracene	5.000	4.444	11.1	84	0.00	11.02
24	P	Chrysene	5.000	4.741	5.2	91	0.00	11.08
25	I	Perylene-d12	4.000	4.000	0.0	96	0.00	13.47
26	P	Benzo[b]fluoranthene	5.000	4.815	3.7	83	0.00	12.78
27	P	Benzo[k]fluoranthene	5.000	4.802	4.0	90	0.00	12.82
28	P	Benzo[a]pyrene	5.000	4.550	9.0	80	0.00	13.36
		----------	Amount	Calc.	%Drift	----------		
29	P	Indeno[1,2,3-cd]pyrene	5.000	4.665	6.7	87	0.00	15.60
30	P	Dibenz[a,h]anthracene	5.000	4.658	6.8	86	0.00	15.66
		----------	Amount	Calc.	%Drift	----------		
31	P	Benzo[g,h,i]perylene	5.000	4.727	5.5	85	-0.01	16.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4d3506.D simpahf0319.m Wed Mar 21 10:54:33 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S4D136-CC131
Account: CSXT CSX Transportation **Lab FileID:** 4D3621.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\4D136\4d3621.D Vial: 2
Acq On : 26 Mar 2018 12:15 pm Operator: nareshj
Sample : cc131-4 Inst : MSBNA07
Misc : op69268,s4d136,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\simpahf0319.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Fri Mar 23 15:19:32 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01	5.37
2	S	Nitrobenzene-d5	0.386	0.379	1.8	83	-0.01	4.77
			Amount	Calc.	%Drift			
3	P	Naphthalene	10.000	9.302	7.0	79	-0.01	5.39
4	P	2-Methylnaphthalene	10.000	9.127	8.7	77	0.00	5.99
5	P	1-Methylnaphthalene	10.000	9.325	6.8	79	-0.01	6.08
			AvgRF	CCRF	%Dev			
6	I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00	6.92
			Amount	Calc.	%Drift			
7	S	2-Fluorobiphenyl	10.000	9.491	5.1	80	-0.01	6.32
8		1,1'-Biphenyl	10.000	9.197	8.0	77	-0.01	6.40
9	P	Acenaphthylene	10.000	9.252	7.5	78	0.00	6.78
10	P	Acenaphthene	10.000	9.171	8.3	77	0.00	6.94
11		Dibenzofuran	10.000	8.905	11.0	76	0.00	7.09
12	P	Fluorene	10.000	9.169	8.3	77	0.00	7.39
			AvgRF	CCRF	%Dev			
13	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	8.22
			Amount	Calc.	%Drift			
14	S	2,4,6-Tribromophenol	20.000	20.051	-0.3	82	-0.01	7.62
15	P	Pentachlorophenol	25.000	20.015	19.9	67	0.00	8.11
16	P	Phenanthrene	10.000	9.200	8.0	76	0.00	8.24
			AvgRF	CCRF	%Dev			
17	P	Anthracene	1.633	1.520	6.9	77	0.00	8.28
18		Carbazole	1.559	1.487	4.6	78	0.00	8.42
			Amount	Calc.	%Drift			
19	P	Fluoranthene	10.000	9.427	5.7	78	0.00	9.31
			AvgRF	CCRF	%Dev			
20	I	Chrysene-d12	1.000	1.000	0.0	94	-0.01	10.99
			Amount	Calc.	%Drift			
21	P	Pyrene	10.000	8.610	13.9	78	0.00	9.53

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S4D136-CC131
Account: CSXT CSX Transportation **Lab FileID:** 4D3621.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

22	S	Terphenyl-d14	10.000	8.706	12.9	80	0.00	9.69
		----------	AvgRF	CCRF	%Dev	----------		
23	P	Benzo[a]anthracene	1.826	1.749	4.2	87	-0.01	10.97
24	P	Chrysene	1.805	1.632	9.6	83	-0.02	11.02
25	I	Perylene-d12	1.000	1.000	0.0	98	-0.01	13.39
26	P	Benzo[b]fluoranthene	1.762	1.669	5.3	84	-0.02	12.71
27	P	Benzo[k]fluoranthene	1.935	1.772	8.4	88	-0.02	12.75
28	P	Benzo[a]pyrene	1.546	1.527	1.2	89	-0.02	13.28
		----------	Amount	Calc.	%Drift	----------		
29	P	Indeno[1,2,3-cd]pyrene	5.000	4.776	4.5	91	-0.02	15.52
30	P	Dibenz[a,h]anthracene	5.000	4.688	6.2	89	-0.02	15.58
		----------	AvgRF	CCRF	%Dev	----------		
31	P	Benzo[g,h,i]perylene	1.791	1.592	11.1	81	-0.02	15.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4d3506.D simpahf0319.m Tue Mar 27 11:05:18 2018

7.7.3

7

Initial Calibration Summary

Job Number: FA52495 **Sample:** S7G79-ICC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01744.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA8

Method : C:\msdchem\1\met...simpahf7g_0326.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Mar 26 18:00:05 2018
Response via : Initial Calibration

Calibration Files
L1 =7G01741.D L2 =7G01742.D L3 =7G01743.D L4 =7G01744.D
L5 =7G01745.D L6 =7G01746.D L7 =7G01747.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	ISTD								
2)S Nitrobenzene-d5	0.418	0.445	0.466	0.458	0.467	0.459	0.478	0.456	4.29
3) 1,4-Dioxane								0.000#	-1.00
4)P Naphthalene	1.219	1.224	1.262	1.232	1.249	1.217	1.236	1.234	1.35
5)P 2-Methylnaphthale	0.753	0.805	0.841	0.831	0.845	0.830	0.833	0.820	3.88
6)P 1-Methylnaphthale	0.730	0.753	0.784	0.776	0.785	0.773	0.780	0.769	2.64
7) I Acenaphthene-d10	ISTD								
8)S 2-Fluorobiphenyl	1.703	1.740	1.820	1.765	1.785	1.757	1.757	1.761	2.06
9)P Acenaphthylene	2.302	2.484	2.592	2.508	2.531	2.479	2.472	2.481	3.60
10)P Acenaphthene	1.516	1.554	1.615	1.567	1.572	1.528	1.514	1.552	2.34
11)P Dibenzofuran	2.056	2.118	2.210	2.131	2.174	2.119	2.124	2.133	2.26
12)P Fluorene	1.607	1.687	1.772	1.719	1.735	1.696	1.690	1.701	3.02
13) I Phenanthrene-d10	ISTD								
14)S 2,4,6-Tribromophe	0.133	0.146	0.157	0.159	0.165	0.165	0.169	0.156	8.27
15) Hexachlorobenzene								0.000#	-1.00
16)P Pentachlorophenol	0.101	0.133	0.166	0.180	0.195	0.197	0.208	0.169	22.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.18016 *A + 0.00112 *A^2									
17)P Phenanthrene	1.241	1.278	1.309	1.271	1.278	1.259	1.223	1.266	2.21
18)P Anthracene	1.312	1.323	1.383	1.341	1.348	1.312	1.298	1.331	2.16
19)P Carbazole	1.078	1.123	1.182	1.142	1.154	1.121	1.121	1.132	2.85
20)P Fluoranthene	1.915	1.971	2.049	1.966	1.966	1.910	1.835	1.944	3.43
21) I Chrysene-d12	ISTD								
22)P Pyrene	1.281	1.346	1.414	1.374	1.383	1.352	1.322	1.353	3.22
23)S Terphenyl-d14	0.838	0.878	0.926	0.906	0.917	0.900	0.876	0.892	3.39
24)P Benzo[a]anthracen	1.266	1.247	1.297	1.256	1.268	1.242	1.267	1.263	1.44
25)P Chrysene	1.205	1.221	1.271	1.221	1.232	1.202	1.216	1.224	1.88
26) I Perylene-d12	ISTD								
27)P Benzo[b]fluoranth	1.087	1.150	1.198	1.188	1.200	1.162	1.201	1.169	3.54
28)P Benzo[k]fluoranth	1.188	1.228	1.250	1.230	1.246	1.212	1.260	1.231	1.99
29)P Benzo[a]pyrene	1.082	1.128	1.181	1.156	1.172	1.153	1.197	1.153	3.30
30)P Indeno[1,2,3-cd]p	0.696	0.738	0.782	0.769	0.782	0.769	0.822	0.765	5.15
31)P Dibenz[a,h]anthra	0.720	0.771	0.818	0.809	0.830	0.847	0.893	0.812	6.77
32)P Benzo[g,h,i]peryl	0.793	0.821	0.863	0.848	0.862	0.856	0.894	0.848	3.83

(#) = Out of Range

simpahf7g_0326.m Tue Mar 27 09:22:01 2018

Initial Calibration Verification

Job Number: FA52495 **Sample:** S7G79-ICV79
Account: CSXT CSX Transportation **Lab FileID:** 7G01748.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\032618_7G79\7G01748.D Vial: 9
Acq On : 26 Mar 2018 6:01 pm Operator: nareshj
Sample : icv79-4 Inst : MSBNA8
Misc : op69204,S7G79,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...simpahf7g_0326.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Mar 26 18:00:05 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	4.000	4.000	0.0	96	0.00	5.38
2	S	Nitrobenzene-d5		----------NA----------				
3		1,4-Dioxane		----------NA----------				
4	P	Naphthalene	10.000	10.018	-0.2	96	0.00	5.40
5	P	2-Methylnaphthalene	10.000	9.670	3.3	91	0.00	5.99
6	P	1-Methylnaphthalene	10.000	9.019	9.8	85	0.00	6.08
7	I	Acenaphthene-d10	4.000	4.000	0.0	94	0.00	6.91
8	S	2-Fluorobiphenyl		----------NA----------				
9	P	Acenaphthylene	10.000	10.053	-0.5	94	0.00	6.77
10	P	Acenaphthene	10.000	10.395	-3.9	97	0.00	6.93
11	P	Dibenzofuran	10.000	10.282	-2.8	97	0.00	7.07
12	P	Fluorene	10.000	10.660	-6.6	99	0.00	7.37
13	I	Phenanthrene-d10	4.000	4.000	0.0	96	0.00	8.19
14	S	2,4,6-Tribromophenol		----------NA----------				
15		Hexachlorobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16	P	Pentachlorophenol	20.000	18.872	12.2	74	0.00	8.09
		----------	Amount	Calc.	%Drift	----------		
17	P	Phenanthrene	10.000	10.236	-2.4	97	0.00	8.21
18	P	Anthracene	5.000	4.842	3.2	92	0.00	8.25
19	P	Carbazole	5.000	5.216	-4.3	99	0.00	8.40
20	P	Fluoranthene	10.000	10.080	-0.8	95	0.01	9.26
21	I	Chrysene-d12	4.000	4.000	0.0	97	0.00	10.74
22	P	Pyrene	10.000	9.890	1.1	95	0.00	9.45
23	S	Terphenyl-d14		----------NA----------				
24	P	Benzo[a]anthracene	5.000	4.857	2.9	95	0.00	10.72
25	P	Chrysene	5.000	5.202	-4.0	102	0.00	10.77
26	I	Perylene-d12	4.000	4.000	0.0	98	0.00	12.95
27	P	Benzo[b]fluoranthene	5.000	5.166	-3.3	100	0.01	12.29
28	P	Benzo[k]fluoranthene	5.000	5.072	-1.4	100	0.00	12.33
29	P	Benzo[a]pyrene	5.000	4.892	2.2	96	0.00	12.85
30	P	Indeno[1,2,3-cd]pyrene	5.000	5.085	-1.7	99	0.00	15.09
31	P	Dibenz[a,h]anthracene	5.000	4.970	0.6	98	0.00	15.16
32	P	Benzo[g,h,i]perylene	5.000	4.951	1.0	97	0.00	15.62

Initial Calibration Verification

Job Number: FA52495 **Sample:** S7G79-ICV79
Account: CSXT CSX Transportation **Lab FileID:** 7G01748.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G01744.D simpahf7g_0326.m Tue Mar 27 09:21:44 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G80-CC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01768.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\032618_7G80\7G01768.D Vial: 2
Acq On : 27 Mar 2018 12:44 pm Operator: fouads
Sample : cc79-4 Inst : MSBNA8
Misc : op69204,S7G80,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...simpahf7g_0326.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Mar 26 18:00:05 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.38
2	S	Nitrobenzene-d5	0.456	0.479	-5.0	116	-0.02	4.80
3		1,4-Dioxane		----------NA----------				
4	P	Naphthalene	1.234	1.256	-1.8	113	0.00	5.40
5	P	2-Methylnaphthalene	0.820	0.831	-1.3	111	0.01	5.98
6	P	1-Methylnaphthalene	0.769	0.769	0.0	110	0.00	6.07
7	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	6.90
8	S	2-Fluorobiphenyl	1.761	1.798	-2.1	109	0.00	6.32
9	P	Acenaphthylene	2.481	2.550	-2.8	109	0.00	6.77
10	P	Acenaphthene	1.552	1.579	-1.7	108	0.00	6.93
11	P	Dibenzofuran	2.133	2.181	-2.3	110	0.00	7.07
12	P	Fluorene	1.701	1.733	-1.9	108	0.00	7.37
13	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00	8.18
14	S	2,4,6-Tribromophenol	0.156	0.170	-9.0	115	-0.01	7.60
15		Hexachlorobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16	P	Pentachlorophenol	25.000	27.559	-10.2	123	0.00	8.08
		----------	AvgRF	CCRF	%Dev	----------		
17	P	Phenanthrene	1.266	1.276	-0.8	108	0.00	8.20
18	P	Anthracene	1.331	1.333	-0.2	107	0.00	8.24
19	P	Carbazole	1.132	1.142	-0.9	107	0.00	8.39
20	P	Fluoranthene	1.944	1.923	1.1	105	0.01	9.25
21	I	Chrysene-d12	1.000	1.000	0.0	100	0.00	10.72
22	P	Pyrene	1.353	1.436	-6.1	105	0.00	9.44
23	S	Terphenyl-d14	0.892	0.928	-4.0	103	0.00	9.60
24	P	Benzo[a]anthracene	1.263	1.271	-0.6	101	0.00	10.70
25	P	Chrysene	1.224	1.235	-0.9	101	0.00	10.75
26	I	Perylene-d12	1.000	1.000	0.0	97	0.00	12.92
27	P	Benzo[b]fluoranthene	1.169	1.188	-1.6	97	0.02	12.27
28	P	Benzo[k]fluoranthene	1.231	1.233	-0.2	97	0.00	12.31
29	P	Benzo[a]pyrene	1.153	1.168	-1.3	97	0.00	12.82
30	P	Indeno[1,2,3-cd]pyrene	0.765	0.760	0.7	95	0.00	15.05
31	P	Dibenz[a,h]anthracene	0.812	0.795	2.1	95	0.00	15.11
32	P	Benzo[g,h,i]perylene	0.848	0.845	0.4	96	0.00	15.58

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G80-CC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01768.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G01744.D simpahf7g_0326.m Tue Mar 27 16:12:56 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G81-CC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01802.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\032818_7G81\7G01802.D Vial: 2
Acq On : 28 Mar 2018 11:27 am Operator: fouads
Sample : cc79-4 Inst : MSBNA8
Misc : op69204,S7G81,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...simpahf7g_0326.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Mar 26 18:00:05 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.43
2	S	Nitrobenzene-d5	0.456	0.478	-4.8	111	0.00	4.86
3		1,4-Dioxane		----------NA----------				
4	P	Naphthalene	1.234	1.273	-3.2	110	0.00	5.45
5	P	2-Methylnaphthalene	0.820	0.850	-3.7	109	0.00	6.03
6	P	1-Methylnaphthalene	0.769	0.789	-2.6	108	0.00	6.13
7	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	6.95
8	S	2-Fluorobiphenyl	1.761	1.805	-2.5	108	0.00	6.37
9	P	Acenaphthylene	2.481	2.405	3.1	101	0.00	6.82
10	P	Acenaphthene	1.552	1.600	-3.1	108	0.00	6.98
11	P	Dibenzofuran	2.133	2.195	-2.9	109	0.01	7.12
12	P	Fluorene	1.701	1.758	-3.4	108	0.02	7.42
13	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	8.23
14	S	2,4,6-Tribromophenol	0.156	0.166	-6.4	111	0.00	7.65
15		Hexachlorobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16	P	Pentachlorophenol	25.000	25.455	-1.8	111	0.00	8.14
		----------	AvgRF	CCRF	%Dev	----------		
17	P	Phenanthrene	1.266	1.293	-2.1	107	0.00	8.25
18	P	Anthracene	1.331	1.333	-0.2	105	0.00	8.29
19	P	Carbazole	1.132	1.126	0.5	104	0.00	8.44
20	P	Fluoranthene	1.944	1.974	-1.5	106	0.01	9.30
21	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	10.78
22	P	Pyrene	1.353	1.434	-6.0	106	0.01	9.50
23	S	Terphenyl-d14	0.892	0.926	-3.8	103	0.01	9.65
24	P	Benzo[a]anthracene	1.263	1.283	-1.6	103	0.00	10.75
25	P	Chrysene	1.224	1.231	-0.6	102	0.00	10.81
26	I	Perylene-d12	1.000	1.000	0.0	100	0.00	12.97
27	P	Benzo[b]fluoranthene	1.169	1.173	-0.3	98	0.00	12.32
28	P	Benzo[k]fluoranthene	1.231	1.243	-1.0	101	0.00	12.36
29	P	Benzo[a]pyrene	1.153	1.148	0.4	99	0.00	12.87
30	P	Indeno[1,2,3-cd]pyrene	0.765	0.742	3.0	96	-0.02	15.10
31	P	Dibenz[a,h]anthracene	0.812	0.763	6.0	94	0.00	15.16
32	P	Benzo[g,h,i]perylene	0.848	0.833	1.8	98	0.00	15.63

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G81-CC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01802.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G01744.D simpahf7g_0326.m Fri Mar 30 09:41:25 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G81-ECC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01822.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\032818_7G81\7G01822.D Vial: 2
Acq On : 28 Mar 2018 7:28 pm Operator: fouads
Sample : ecc79-4 Inst : MSBNA8
Misc : op69373,s7g81,15.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\met...simpahf7g_0326.m (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Mar 26 18:00:05 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.43
2	S	Nitrobenzene-d5	0.456	0.471	-3.3	121	-0.01	4.85
3		1,4-Dioxane		----------NA----------				
4	P	Naphthalene	1.234	1.251	-1.4	120	0.00	5.45
5	P	2-Methylnaphthalene	0.820	0.836	-2.0	119	0.00	6.03
6	P	1-Methylnaphthalene	0.769	0.776	-0.9	118	0.00	6.12
7	I	Acenaphthene-d10	1.000	1.000	0.0	116	0.00	6.95
8	S	2-Fluorobiphenyl	1.761	1.795	-1.9	118	0.00	6.37
9	P	Acenaphthylene	2.481	2.373	4.4	110	0.00	6.81
10	P	Acenaphthene	1.552	1.589	-2.4	118	0.00	6.97
11	P	Dibenzofuran	2.133	2.171	-1.8	118	0.00	7.11
12	P	Fluorene	1.701	1.748	-2.8	118	0.01	7.41
13	I	Phenanthrene-d10	1.000	1.000	0.0	115	0.00	8.23
14	S	2,4,6-Tribromophenol	0.156	0.148	5.1	107	0.00	7.65
15		Hexachlorobenzene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16	P	Pentachlorophenol	25.000	14.531	41.9	68	0.00	8.13
		----------	AvgRF	CCRF	%Dev	----------		
17	P	Phenanthrene	1.266	1.297	-2.4	117	0.00	8.25
18	P	Anthracene	1.331	1.355	-1.8	116	0.00	8.29
19	P	Carbazole	1.132	1.160	-2.5	117	0.00	8.44
20	P	Fluoranthene	1.944	2.013	-3.5	118	0.00	9.30
21	I	Chrysene-d12	1.000	1.000	0.0	115	0.00	10.77
22	P	Pyrene	1.353	1.412	-4.4	118	0.00	9.49
23	S	Terphenyl-d14	0.892	0.923	-3.5	117	0.00	9.65
24	P	Benzo[a]anthracene	1.263	1.277	-1.1	117	0.00	10.75
25	P	Chrysene	1.224	1.226	-0.2	115	0.00	10.80
26	I	Perylene-d12	1.000	1.000	0.0	112	0.00	12.97
27	P	Benzo[b]fluoranthene	1.169	1.209	-3.4	114	0.00	12.32
28	P	Benzo[k]fluoranthene	1.231	1.250	-1.5	114	0.00	12.36
29	P	Benzo[a]pyrene	1.153	1.165	-1.0	113	0.00	12.87
30	P	Indeno[1,2,3-cd]pyrene	0.765	0.746	2.5	109	-0.02	15.10
31	P	Dibenz[a,h]anthracene	0.812	0.779	4.1	108	0.00	15.16
32	P	Benzo[g,h,i]perylene	0.848	0.821	3.2	109	0.00	15.63

Continuing Calibration Summary

Job Number: FA52495 **Sample:** S7G81-ECC79
Account: CSXT CSX Transportation **Lab FileID:** 7G01822.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7G01744.D simpahf7g_0326.m Fri Mar 30 09:41:54 2018

Initial Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ICC2484
Account: CSXT CSX Transportation **Lab FileID:** X059371.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Mar 21 15:37:44 2018
Response via : Initial Calibration

Calibration Files
5 =x059368.D 10 =x059369.D 25 =x059370.D 50 =x059371.D
60 =x059372.D 75 =x059373.D 100 =x059374.D 1 =x059367.D

Compound	5	10	25	50	60	75	100	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.682	0.679	0.649	0.655	0.688	0.676	0.662	0.777	0.684	5.88
3) N-nitrosodim	0.879	0.878	0.832	0.758	0.847	0.850	0.942	0.848	0.854	6.08
4) Pyridine	1.766	1.803	1.796	1.700	1.845	1.847	1.807	1.477	1.755	6.94
5) Benzaldehyde	1.156	1.251	1.169	0.991	1.000	0.931	0.872	1.054	1.053	12.30
6) Aniline	1.972	2.331	2.376	2.338	2.418	2.384	2.393	1.787	2.250	10.47
7) 2-Fluorophen	1.426	1.463	1.489	1.502	1.552	1.550	1.524	1.396	1.488	3.80
8) bis(2-Chloro	1.529	1.568	1.553	1.514	1.591	1.584	1.591	1.642	1.572	2.55
9) Phenol-d5	1.965	1.984	1.981	1.965	2.019	2.007	2.009	1.892	1.978	2.03
10) Phenol	2.091	2.135	2.136	2.102	2.172	2.159	2.146	2.020	2.120	2.30
11) 2-Chlorophen	1.502	1.571	1.539	1.539	1.596	1.567	1.557	1.487	1.545	2.35
12) 1,3-Dichloro	1.635	1.620	1.566	1.573	1.648	1.641	1.602	1.689	1.622	2.50
13) 1,4-Dichloro	1.652	1.665	1.608	1.596	1.656	1.656	1.621	1.677	1.641	1.77
14) 1,2-Dichloro	1.556	1.561	1.544	1.556	1.597	1.593	1.584	1.663	1.582	2.41
15) Benzyl alcoh	0.918	0.963	1.003	1.030	1.072	1.063	1.064	0.866	0.997	7.58
16) bis(2-chloro	2.356	2.262	2.170	1.952	2.143	2.159	2.360	2.233	2.204	6.00
17) 2-Methylphen	1.439	1.478	1.437	1.402	1.485	1.472	1.456	1.394	1.445	2.36
18) Acetophenone	2.038	2.190	2.131	2.069	2.156	2.154	2.165	1.863	2.096	5.12
19) Hexachloroet	0.701	0.694	0.676	0.667	0.711	0.709	0.735	0.721	0.702	3.19
20) N-Nitroso-di	1.211	1.200	1.178	1.120	1.172	1.174	1.221	1.222	1.187	2.84
21) 3&4-Methylph	1.499	1.536	1.534	1.531	1.567	1.573	1.592	1.522	1.544	1.98
22) I Naphthalene-d8	ISTD									
23) Nitrobenzene	0.481	0.473	0.466	0.445	0.481	0.478	0.481	0.464	0.471	2.66
24) Nitrobenzene	0.471	0.473	0.466	0.444	0.481	0.474	0.485	0.527	0.478	4.93
25) Isophorone	0.853	0.856	0.835	0.797	0.846	0.833	0.831	0.908	0.845	3.73
26) 2-Nitropheno	0.207	0.216	0.215	0.218	0.228	0.228	0.216	0.197	0.216	4.75
27) 2,4-Dimethyl	0.414	0.423	0.413	0.403	0.430	0.424	0.415	0.419	0.418	1.99
28) O,O,O-Trieth	0.158	0.161	0.161	0.156	0.167	0.165	0.163	0.152	0.160	3.00
29) bis(2-Chloro	0.530	0.539	0.507	0.498	0.514	0.505	0.512	0.607	0.527	6.68
30) Benzoic Acid	0.235	0.263	0.228	0.295	0.326	0.326	0.395	0.211	0.285	21.85
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980										
Response Ratio = 0.00000 + 0.19265 *A + 0.07957 *A^2										
31) 2,4-Dichloro	0.304	0.322	0.315	0.318	0.334	0.332	0.321	0.292	0.317	4.37
32) 1,2,4-Trichl	0.319	0.325	0.320	0.316	0.334	0.337	0.321	0.344	0.327	3.10
33) alpha-Terpin									0.000	-1.00
34) Naphthalene	1.165	1.175	1.147	1.113	1.170	1.151	1.110	1.272	1.163	4.36
35) 4-Chloroanil	0.402	0.464	0.485	0.464	0.473	0.453	0.419	0.406	0.446	7.18
36) 2,6-Dichloro	0.318	0.321	0.327	0.329	0.344	0.342	0.332	0.326	0.330	2.73
37) Hexachlorobu	0.176	0.175	0.175	0.170	0.182	0.182	0.180	0.198	0.180	4.77
38) Caprolactam	0.121	0.129	0.127	0.123	0.131	0.125	0.126	0.110	0.124	5.04
39) 4-Chloro-3-m	0.353	0.364	0.362	0.355	0.374	0.367	0.361	0.350	0.361	2.24
40) 2-Methylnaph	0.656	0.668	0.656	0.628	0.668	0.659	0.643	0.703	0.660	3.31
41) 1-Methylnaph	0.740	0.742	0.730	0.708	0.743	0.735	0.711	0.794	0.738	3.58
42) 1,2,4,5-Tetr	0.333	0.334	0.330	0.329	0.343	0.342	0.330	0.351	0.336	2.45

Initial Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ICC2484
Account: CSXT CSX Transportation **Lab FileID:** X059371.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

43) I Acenaphthene-d10 ----------ISTD----------

44) Hexachlorocy	0.138	0.192	0.262	0.291	0.327	0.348	0.347		0.272	29.66

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9962
Response Ratio = 0.00000 + 0.25947 *A + 0.03792 *A^2

45) 2,4,6-Trichl	0.388	0.392	0.405	0.383	0.426	0.431	0.417	0.408	0.406	4.38
46) 2,4,5-Trichl	0.410	0.414	0.430	0.412	0.448	0.455	0.441	0.407	0.427	4.41
47) 2-Fluorobiph	1.554	1.557	1.564	1.447	1.598	1.595	1.532	1.642	1.561	3.68
48) 1,1'-Bipheny	1.692	1.773	1.757	1.589	1.782	1.782	1.766	1.646	1.723	4.24
49) 2-Chloronaph	1.331	1.324	1.349	1.259	1.387	1.379	1.354	1.394	1.347	3.24
50) 2-Nitroanili	0.489	0.489	0.502	0.458	0.504	0.509	0.525	0.463	0.492	4.65
51) p-Dinitroben	0.310	0.318	0.338	0.311	0.351	0.355	0.364	0.238	0.323	12.40
52) Acenaphthyle	2.125	2.142	2.095	1.971	2.130	2.120	2.051	2.217	2.106	3.41
53) Dimethylphth	1.554	1.565	1.546	1.437	1.563	1.544	1.510	1.685	1.551	4.44
54) m-Dinitroben	0.240	0.254	0.260	0.255	0.275	0.275	0.272	0.196	0.253	10.31
55) 2,6-Dinitrot	0.352	0.357	0.365	0.349	0.377	0.376	0.364	0.362	0.363	2.81
56) o-Dinitroben	0.249	0.246	0.246	0.211	0.242	0.243	0.264	0.251	0.244	6.19
57) Acenaphthene	1.402	1.393	1.382	1.285	1.408	1.401	1.366	1.526	1.395	4.74
58) 3-Nitroanili	0.374	0.402	0.410	0.370	0.397	0.382	0.359	0.362	0.382	4.99
59) 2,4-Dinitrop	0.037	0.092	0.163	0.186	0.218	0.228	0.226		0.164	44.92

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9938
Response Ratio = 0.00000 + 0.16593 *A + 0.02642 *A^2

60) Dibenzofuran	1.911	1.927	1.922	1.774	1.941	1.925	1.857	2.023	1.910	3.74
61) 2,4-Dinitrot	0.452	0.477	0.491	0.458	0.503	0.504	0.482	0.378	0.468	8.74
62) 4-Nitropheno	0.152	0.171	0.185	0.168	0.198	0.200	0.217	0.131	0.178	15.72

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976
Response Ratio = 0.00000 + 0.15164 *A + 0.02591 *A^2

63) 2,3,5,6-Tetr	0.270	0.281	0.302	0.297	0.329	0.332	0.328	0.263	0.300	9.13
64) 2,3,4,6-Tetr	0.308	0.308	0.321	0.316	0.347	0.354	0.345	0.263	0.320	9.22
65) Fluorene	1.544	1.554	1.548	1.425	1.576	1.558	1.535	1.616	1.544	3.52
66) 4-Chlorophen	0.671	0.682	0.686	0.645	0.709	0.707	0.686	0.707	0.687	3.19
67) Diethylphtha	1.553	1.561	1.554	1.418	1.567	1.546	1.554	1.660	1.552	4.23
68) Thionazin	0.393	0.403	0.401	0.356	0.404	0.405	0.412	0.365	0.392	5.23
69) 4-Nitroanili	0.388	0.405	0.416	0.402	0.442	0.435	0.421	0.354	0.408	6.92

70) I Phenanthrene-d10 ----------ISTD----------

71) 4,6-Dinitro-	0.097	0.123	0.144	0.141	0.162	0.165	0.167	0.040	0.130	33.44

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976
Response Ratio = 0.00000 + 0.13556 *A + 0.01317 *A^2

72) n-Nitrosodip	0.739	0.619	0.620	0.570	0.628	0.629	0.617	0.748	0.646	9.75
73) Diphenylamin	0.739	0.742	0.744	0.684	0.754	0.755	0.740	0.748	0.738	3.07
74) 1,2-Diphenyl	1.166	1.144	1.128	1.018	1.160	1.163	1.191	1.161	1.141	4.64
75) 2,4,6-Tribro	0.078	0.083	0.086	0.083	0.093	0.094	0.089	0.075	0.085	8.06
76) Sulfotep	0.167	0.174	0.173	0.150	0.172	0.175	0.180	0.151	0.168	6.76
77) Phorate	0.643	0.665	0.658	0.568	0.645	0.650	0.680	0.550	0.633	7.42
78) 4-Bromopheny	0.200	0.202	0.208	0.192	0.214	0.218	0.215	0.208	0.207	4.22
79) Hexachlorobe	0.196	0.200	0.200	0.191	0.209	0.212	0.198	0.218	0.203	4.49
80) Dimethoate	0.361	0.388	0.385	0.347	0.385	0.385	0.383	0.297	0.366	8.67
81) Simazine	0.102	0.103	0.103	0.108	0.106	0.102	0.089	0.099	0.102	5.59
82) Atrazine	0.226	0.234	0.228	0.198	0.223	0.224	0.225	0.210	0.221	5.13
83) Pentachlorop		0.058	0.082	0.088	0.105	0.111	0.140		0.097	29.07

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9971
Response Ratio = 0.00000 + 0.04518 *A + 0.03752 *A^2

84) Phenanthrene	1.190	1.211	1.198	1.064	1.193	1.188	1.158	1.314	1.189	5.76
85) Anthracene	1.231	1.237	1.235	1.125	1.245	1.237	1.200	1.293	1.225	3.92

Initial Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ICC2484
Account: CSXT CSX Transportation **Lab FileID:** X059371.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

86)	Disulfoton	0.467	0.486	0.489	0.419	0.503	0.506	0.587	0.389	0.481	12.42
87)	Carbazole	1.156	1.180	1.188	1.084	1.193	1.176	1.143	1.213	1.167	3.40
88)	Methyl Parat	0.291	0.322	0.334	0.297	0.329	0.331	0.333	0.222	0.307	12.46
89)	Di-n-butylph	1.432	1.437	1.445	1.297	1.435	1.414	1.385	1.413	1.407	3.45
90)	Ethyl Parath	0.195	0.205	0.219	0.193	0.220	0.219	0.224	0.138	0.202	14.12
91)	Fluoranthene	1.237	1.261	1.263	1.135	1.255	1.247	1.203	1.270	1.234	3.67
92)	I Chrysene-d12	----------ISTD----------									
93)	Benzidine	0.563	0.715	0.750	0.612	0.665	0.637	0.599	0.608	0.644	9.79
94)	Pyrene	1.514	1.540	1.508	1.359	1.514	1.505	1.436	1.632	1.501	5.26
95)	Terphenyl-d1	0.924	0.937	0.932	0.868	0.962	0.964	0.906	0.982	0.934	3.89
96)	Famphur	0.493	0.526	0.485	0.360	0.366	0.324	0.294	0.417	0.408	21.03

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9948
Response Ratio = 0.00000 + 0.47185 *A + -0.07327 *A^2

97)	Butylbenzylp	0.733	0.744	0.740	0.688	0.752	0.747	0.722	0.710	0.729	2.98
98)	3,3'-Dichlor	0.374	0.431	0.454	0.399	0.429	0.412	0.383	0.384	0.408	6.89
99)	Benzo[a]anth	1.287	1.298	1.290	1.189	1.320	1.309	1.235	1.410	1.292	4.98
100)	Chrysene	1.250	1.261	1.253	1.141	1.278	1.267	1.195	1.402	1.256	5.95
101)	bis(2-Ethylh	0.953	0.992	1.000	0.912	1.018	1.016	0.980	0.939	0.976	3.92
102)	I Perylene-d12	----------ISTD----------									
103)	Di-n-octylph	1.628	1.720	1.800	1.658	1.826	1.830	1.828	1.508	1.725	6.88
104)	Benzo[b]fluo	1.134	1.159	1.250	1.138	1.289	1.319	1.226	1.196	1.214	5.70
105)	Benzo[k]fluo	1.271	1.320	1.259	1.177	1.265	1.244	1.247	1.311	1.262	3.49
106)	Benzo[a]pyre	1.131	1.186	1.199	1.129	1.241	1.243	1.209	1.173	1.189	3.65
107)	Indeno[1,2,3	0.847	0.906	0.939	0.914	0.989	0.995	0.956	0.803	0.919	7.26
108)	Dibenz[a,h]a	0.883	0.962	0.999	0.958	1.043	1.037	0.995	0.848	0.966	7.20
109)	Benzo[g,h,i]	1.004	1.051	1.061	0.988	1.078	1.066	1.039	1.037	1.041	2.96

(#) = Out of Range ### Number of calibration levels exceeded format ###

8270d032118.m Thu Mar 22 12:43:54 2018

7.7.9

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059376.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\0321_sx2484\x059376.D Vial: 11
Acq On : 21 Mar 2018 2:45 pm Operator: marthav
Sample : icv2484-50 Inst : MSBNA05
Misc : op69203,sx2484,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Mar 21 15:37:44 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	92	0.00	5.15
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	46.440	7.1	89	0.00	2.36
5	P	Benzaldehyde		----------NA----------				
6		Aniline	50.000	51.210	-2.4	92	0.00	4.86
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	47.603	4.8	85	0.00	5.36
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	93	0.00	6.57
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
30		Benzoic Acid		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
31	P	2,4-Dichlorophenol		----------NA----------				
32		1,2,4-Trichlorobenzene		----------NA----------				
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline	50.000	53.829	-7.7	97	0.00	6.71
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059376.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene	50.000	46.702	6.6	92	0.00	7.39
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	93	0.00	8.60
		---------- Amount	Calc.	%Drift ----------				
44	P	Hexachlorocyclopentadiene		----------NA----------				
		---------- Amount	Calc.	%Drift ----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline	50.000	46.698	6.6	94	0.00	8.13
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene	50.000	48.143	3.7	89	0.00	8.40
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline	50.000	53.424	-6.8	103	0.00	8.62
		---------- Amount	Calc.	%Drift ----------				
59	P	2,4-Dinitrophenol		----------NA----------				
		---------- Amount	Calc.	%Drift ----------				
60	P	Dibenzofuran	50.000	46.312	7.4	93	0.00	8.82
61	P	2,4-Dinitrotoluene		----------NA----------				
		---------- Amount	Calc.	%Drift ----------				
62	P	4-Nitrophenol		----------NA----------				
		---------- Amount	Calc.	%Drift ----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline	50.000	50.392	-0.8	95	0.00	9.34
70	I	Phenanthrene-d10	40.000	40.000	0.0	94	0.00	10.30
		---------- Amount	Calc.	%Drift ----------				
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		---------- Amount	Calc.	%Drift ----------				
72	P	n-Nitrosodiphenylamine	60.000	57.944	3.4	103	0.00	9.41
73		Diphenylamine	50.000	50.710	-1.4	103	0.00	9.41
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059376.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

			Amount	Calc.	%Drift			
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				
			Amount	Calc.	%Drift			
83	P	Pentachlorophenol		----------NA----------				
			Amount	Calc.	%Drift			
84	P	Phenanthrene		----------NA----------				
85	P	Anthracene		----------NA----------				
86		Disulfoton		----------NA----------				
87	P	Carbazole	50.000	47.530	4.9	97	0.00	10.61
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate		----------NA----------				
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene		----------NA----------				
92	I	Chrysene-d12	40.000	40.000	0.0	96	0.00	13.42
93		Benzidine	50.000	69.214	-38.4#	141	0.00	11.93
94	P	Pyrene		----------NA----------				
95	S	Terphenyl-d14		----------NA----------				
			Amount	Calc.	%Drift			
96		Famphur		----------NA----------				
			Amount	Calc.	%Drift			
97	P	Butylbenzylphthalate		----------NA----------				
98	P	3,3'-Dichlorobenzidine	50.000	56.069	-12.1	111	0.00	13.45
99	P	Benzo[a]anthracene		----------NA----------				
100	P	Chrysene		----------NA----------				
101	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
102	I	Perylene-d12	40.000	40.000	0.0	97	0.00	15.35
103	P	Di-n-octylphthalate		----------NA----------				
104	P	Benzo[b]fluoranthene		----------NA----------				
105	P	Benzo[k]fluoranthene		----------NA----------				
106	P	Benzo[a]pyrene		----------NA----------				
107	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
108	P	Dibenz[a,h]anthracene		----------NA----------				
109	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x059371.D 8270d032118.m Thu Mar 22 10:38:43 2018

7.7.10

7

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059377.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\0321_sx2484\x059377.D Vial: 12
Acq On : 21 Mar 2018 3:10 pm Operator: marthav
Sample : icv2484-50 Inst : MSBNA05
Misc : op69203,sx2484,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Wed Mar 21 15:37:44 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	93	0.00	5.15
2		1,4-Dioxane	50.000	44.884	10.2	87	0.03	2.03
3		N-nitrosodimethylamine	50.000	43.629	12.7	91	0.02	2.40
4		Pyridine		----------NA----------				
5	P	Benzaldehyde	50.000	57.988	-16.0	114	0.00	4.69
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	46.165	7.7	89	0.00	4.94
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	48.004	4.0	90	0.00	4.94
11	P	2-Chlorophenol	50.000	48.539	2.9	90	0.00	4.98
12		1,3-Dichlorobenzene	50.000	48.752	2.5	93	0.00	5.11
13		1,4-Dichlorobenzene	50.000	48.149	3.7	92	0.00	5.17
14		1,2-Dichlorobenzene	50.000	47.360	5.3	89	0.00	5.37
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	44.584	10.8	93	0.00	5.53
17	P	2-Methylphenol	50.000	45.355	9.3	87	0.00	5.56
18	P	Acetophenone	50.000	47.505	5.0	89	0.00	5.64
19	P	Hexachloroethane	50.000	46.488	7.0	91	0.00	5.70
20	P	N-Nitroso-di-n-propylamin	50.000	45.977	8.0	90	0.00	5.69
21	P	3&4-Methylphenol	100.000	90.467	9.5	102	0.00	5.73
22	I	Naphthalene-d8	40.000	40.000	0.0	88	0.00	6.57
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	46.696	6.6	89	0.00	5.82
25	P	Isophorone	50.000	44.865	10.3	84	0.00	6.09
26	P	2-Nitrophenol	50.000	49.863	0.3	87	0.00	6.18
27	P	2,4-Dimethylphenol	50.000	41.301	17.4	75	0.00	6.29
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan	50.000	45.191	9.6	84	0.00	6.37
		----------	Amount	Calc.	%Drift	----------		
30		Benzoic Acid	100.000	79.920	20.1#	78	0.08	6.56
		----------	Amount	Calc.	%Drift	----------		
31	P	2,4-Dichlorophenol	50.000	49.876	0.2	88	0.00	6.47
32		1,2,4-Trichlorobenzene	50.000	49.046	1.9	89	0.00	6.53
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	50.000	47.854	4.3	88	0.00	6.59
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol	50.000	46.721	6.6	82	0.00	6.72
37	P	Hexachlorobutadiene	50.000	49.724	0.6	93	0.00	6.82

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059377.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	Caprolactam	50.000	46.049	7.9	81	0.03	7.12
39	P	4-Chloro-3-methylphenol	50.000	47.394	5.2	85	0.00	7.34
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene	50.000	45.278	9.4	83	0.00	7.51
42	P	1,2,4,5-Tetrachlorobenzen	50.000	46.587	6.8	84	0.00	7.63
43	I	Acenaphthene-d10	40.000	40.000	0.0	81	0.00	8.60
		---------- Amount	Calc.	%Drift	----------			
44	P	Hexachlorocyclopentadiene	50.000	51.961	-3.9	89	0.00	7.66
		---------- Amount	Calc.	%Drift	----------			
45	P	2,4,6-Trichlorophenol	50.000	52.111	-4.2	89	0.00	7.78
46	P	2,4,5-Trichlorophenol	50.000	51.408	-2.8	86	0.00	7.84
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl	50.000	49.758	0.5	87	0.00	7.95
49	P	2-Chloronaphthalene	50.000	49.604	0.8	86	0.00	7.94
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene	50.000	53.205	-6.4	92	0.00	8.42
53	P	Dimethylphthalate	50.000	48.187	3.6	84	0.00	8.40
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene	50.000	47.345	5.3	79	0.00	8.47
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene	50.000	49.750	0.5	87	0.00	8.64
58	P	3-Nitroaniline		----------NA----------				
		---------- Amount	Calc.	%Drift	----------			
59	P	2,4-Dinitrophenol	100.000	88.834	11.2	93	0.00	8.74
		---------- Amount	Calc.	%Drift	----------			
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene	50.000	48.873	2.3	81	0.00	8.92
		---------- Amount	Calc.	%Drift	----------			
62	P	4-Nitrophenol	100.000	84.663	15.3	85	0.00	8.92
		---------- Amount	Calc.	%Drift	----------			
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol	50.000	46.659	6.7	76	0.00	9.05
65	P	Fluorene	50.000	50.112	-0.2	88	0.00	9.23
66	P	4-Chlorophenyl-phenylethe	50.000	50.117	-0.2	86	0.00	9.25
67	P	Diethylphthalate	50.000	47.998	4.0	85	0.00	9.23
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	77	0.00	10.30
		---------- Amount	Calc.	%Drift	----------			
71	P	4,6-Dinitro-2-methylpheno	100.000	101.186	-1.2	104	0.00	9.39
		---------- Amount	Calc.	%Drift	----------			
72	P	n-Nitrosodiphenylamine	50.000	46.055	7.9	67	0.00	9.41
73		Diphenylamine	50.000	40.312	19.4	67	0.00	9.41
74		1,2-Diphenylhydrazine	50.000	46.785	6.4	80	0.00	9.43
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether	50.000	51.381	-2.8	85	0.00	9.81
79	P	Hexachlorobenzene	50.000	48.597	2.8	79	0.00	9.96

Initial Calibration Verification

Job Number: FA52495 **Sample:** SX2484-ICV2484
Account: CSXT CSX Transportation **Lab FileID:** X059377.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine	50.000	49.439	1.1	85	0.00	10.11
		---------- Amount		Calc.	%Drift		----------	
83	P	Pentachlorophenol	100.000	88.644	11.4	82	0.00	10.20
		---------- Amount		Calc.	%Drift		----------	
84	P	Phenanthrene	50.000	48.776	2.4	84	0.00	10.33
85	P	Anthracene	50.000	46.928	6.1	78	0.00	10.38
86		Disulfoton		----------NA----------				
87	P	Carbazole		----------NA----------				
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate	50.000	49.607	0.8	83	0.00	11.14
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene	50.000	49.154	1.7	82	0.00	11.72
92	I	Chrysene-d12	40.000	40.000	0.0	70	0.00	13.43
93		Benzidine		----------NA----------				
94	P	Pyrene	50.000	52.188	-4.4	81	0.00	11.97
95	S	Terphenyl-d14		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
96		Famphur		----------NA----------				
		---------- Amount		Calc.	%Drift		----------	
97	P	Butylbenzylphthalate	50.000	51.470	-2.9	77	0.00	12.88
98	P	3,3'-Dichlorobenzidine		----------NA----------				
99	P	Benzo[a]anthracene	50.000	49.754	0.5	76	0.00	13.41
100	P	Chrysene	50.000	49.801	0.4	77	0.00	13.46
101	P	bis(2-Ethylhexyl)phthalat	50.000	52.346	-4.7	79	0.00	13.65
102	I	Perylene-d12	40.000	40.000	0.0	69	0.00	15.35
103	P	Di-n-octylphthalate	50.000	53.579	-7.2	77	0.00	14.48
104	P	Benzo[b]fluoranthene	50.000	52.733	-5.5	77	0.00	14.83
105	P	Benzo[k]fluoranthene	50.000	49.880	0.2	74	0.00	14.86
106	P	Benzo[a]pyrene	50.000	50.915	-1.8	74	0.00	15.26
107	P	Indeno[1,2,3-cd]pyrene	50.000	51.499	-3.0	71	0.00	17.03
108	P	Dibenz[a,h]anthracene	50.000	52.882	-5.8	73	0.00	17.08
109	P	Benzo[g,h,i]perylene	50.000	50.498	-1.0	73	0.00	17.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x059371.D 8270d032118.m Thu Mar 22 10:38:22 2018

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059379.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\0321_sx2484\x059379.D Vial: 2
Acq On : 21 Mar 2018 3:51 pm Operator: marthav
Sample : cc2484-50 Inst : MSBNA05
Misc : op69203,sx2484,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Fri Mar 23 08:16:22 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	5.15
2		1,4-Dioxane	0.681	0.651	4.4	90	-0.02	1.99
3		N-nitrosodimethylamine	0.852	0.782	8.2	93	-0.03	2.38
4		Pyridine	1.750	1.707	2.5	91	-0.05	2.36
5	P	Benzaldehyde	1.064	1.005	5.5	92	0.00	4.69
6		Aniline	2.259	2.358	-4.4	91	0.00	4.86
7	S	2-Fluorophenol	1.487	1.519	-2.2	91	-0.02	3.89
8	P	bis(2-Chloroethyl)ether	1.554	1.539	1.0	92	0.00	4.94
9	S	Phenol-d5	1.974	2.007	-1.7	92	0.00	4.92
10	P	Phenol	2.125	2.140	-0.7	92	0.00	4.94
11	P	2-Chlorophenol	1.530	1.548	-1.2	91	0.00	4.98
12		1,3-Dichlorobenzene	1.609	1.578	1.9	91	0.00	5.11
13		1,4-Dichlorobenzene	1.640	1.617	1.4	92	0.00	5.17
14		1,2-Dichlorobenzene	1.568	1.561	0.4	91	0.00	5.37
15		Benzyl alcohol	1.001	1.057	-5.6	93	0.00	5.37
16	P	bis(2-chloroisopropyl)eth	2.194	1.980	9.8	92	0.00	5.53
17	P	2-Methylphenol	1.438	1.462	-1.7	94	0.00	5.56
18	P	Acetophenone	2.104	2.106	-0.1	92	0.00	5.64
19	P	Hexachloroethane	0.697	0.683	2.0	93	0.00	5.70
20	P	N-Nitroso-di-n-propylamin	1.186	1.162	2.0	94	0.01	5.69
21	P	3&4-Methylphenol	1.532	1.571	-2.5	93	0.00	5.73
22	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	6.57
23	S	Nitrobenzene-d5	0.470	0.446	5.1	93	0.00	5.80
24	P	Nitrobenzene	0.472	0.446	5.5	93	0.00	5.82
25	P	Isophorone	0.843	0.804	4.6	93	0.01	6.09
26	P	2-Nitrophenol	0.216	0.212	1.9	90	0.00	6.18
27	P	2,4-Dimethylphenol	0.418	0.412	1.4	95	0.00	6.29
28		O,O,O-Triethylphosphoroth	0.160	0.153	4.4	91	0.01	6.40
29	P	bis(2-Chloroethoxy)methan	0.515	0.496	3.7	92	0.01	6.37
		----------	Amount	Calc.	%Drift		----------	
30		Benzoic Acid	50.000	52.154	-4.3	99	0.06	6.51
		----------	AvgRF	CCRF	%Dev		----------	
31	P	2,4-Dichlorophenol	0.317	0.321	-1.3	93	0.00	6.48
32		1,2,4-Trichlorobenzene	0.325	0.318	2.2	93	0.00	6.53
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	1.152	1.116	3.1	93	0.01	6.59
35	P	4-Chloroaniline	0.443	0.466	-5.2	93	0.00	6.72
36		2,6-Dichlorophenol	0.328	0.328	0.0	92	0.00	6.72
37	P	Hexachlorobutadiene	0.179	0.168	6.1	92	0.00	6.82

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059379.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	Caprolactam	0.127	0.128	-0.8	96	0.09	7.13
39	P	4-Chloro-3-methylphenol	0.361	0.365	-1.1	95	0.00	7.34
40	P	2-Methylnaphthalene	0.654	0.639	2.3	94	0.00	7.39
41		1-Methylnaphthalene	0.732	0.721	1.5	94	0.00	7.51
42	P	1,2,4,5-Tetrachlorobenzen	0.336	0.335	0.3	94	0.00	7.63
43	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00	8.60
		----------	Amount	Calc.	%Drift	----------		
44	P	Hexachlorocyclopentadiene	50.000	45.133	9.7	91	0.00	7.66
		----------	AvgRF	CCRF	%Dev	----------		
45	P	2,4,6-Trichlorophenol	0.406	0.384	5.4	96	0.00	7.78
46	P	2,4,5-Trichlorophenol	0.427	0.418	2.1	97	0.00	7.85
47	S	2-Fluorobiphenyl	1.543	1.436	6.9	95	0.01	7.86
48	P	1,1'-Biphenyl	1.734	1.585	8.6	96	0.00	7.95
49	P	2-Chloronaphthalene	1.341	1.256	6.3	96	0.00	7.94
50	P	2-Nitroaniline	0.494	0.453	8.3	95	0.01	8.13
51		p-Dinitrobenzene	0.322	0.320	0.6	99	0.00	8.27
52	P	Acenaphthylene	2.105	1.975	6.2	96	0.01	8.42
53	P	Dimethylphthalate	1.543	1.419	8.0	95	0.02	8.40
54		m-Dinitrobenzene	0.254	0.253	0.4	95	0.00	8.41
55	P	2,6-Dinitrotoluene	0.363	0.346	4.7	95	0.02	8.47
56		o-Dinitrobenzene	0.244	0.218	10.7	99	0.02	8.54
57	P	Acenaphthene	1.382	1.292	6.5	96	0.01	8.64
58	P	3-Nitroaniline	0.382	0.384	-0.5	100	0.01	8.63
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol	50.000	46.374	7.3	97	0.00	8.74
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran	1.901	1.792	5.7	97	0.01	8.83
61	P	2,4-Dinitrotoluene	0.468	0.461	1.5	96	0.01	8.92
		----------	Amount	Calc.	%Drift	----------		
62	P	4-Nitrophenol	50.000	47.515	5.0	102	-0.02	8.93
		----------	AvgRF	CCRF	%Dev	----------		
63		2,3,5,6-Tetrachlorophenol	0.298	0.292	2.0	94	0.00	9.00
64	P	2,3,4,6-Tetrachlorophenol	0.324	0.326	-0.6	99	0.00	9.05
65	P	Fluorene	1.533	1.472	4.0	99	0.01	9.23
66	P	4-Chlorophenyl-phenylethe	0.683	0.645	5.6	96	0.01	9.26
67	P	Diethylphthalate	1.551	1.452	6.4	98	0.02	9.23
68		Thionazin	0.395	0.363	8.1	98	0.02	9.33
69	P	4-Nitroaniline	0.409	0.414	-1.2	99	0.03	9.35
70	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.01	10.31
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno	50.000	46.087	7.8	98	0.01	9.40
		----------	AvgRF	CCRF	%Dev	----------		
72	P	n-Nitrosodiphenylamine	0.639	0.564	11.7	97	0.02	9.42
73		Diphenylamine	0.732	0.677	7.5	97	0.02	9.42
74		1,2-Diphenylhydrazine	1.142	1.018	10.9	98	0.01	9.43
75	S	2,4,6-Tribromophenol	0.085	0.083	2.4	98	0.01	9.55
76		Sulfotep	0.169	0.152	10.1	99	0.01	9.75
77		Phorate	0.636	0.566	11.0	97	0.01	9.81
78	P	4-Bromophenyl-phenylether	0.206	0.195	5.3	99	0.00	9.81
79	P	Hexachlorobenzene	0.200	0.187	6.5	96	0.01	9.96

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059379.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

80		Dimethoate	0.374	0.348	7.0	98	0.02	10.02
81		Simazine	0.102	0.109	-6.9	98	0.04	10.08
82	P	Atrazine	0.224	0.202	9.8	100	0.03	10.12
			Amount	Calc.	%Drift			
83	P	Pentachlorophenol	50.000	48.584	2.8	101	0.01	10.20
			AvgRF	CCRF	%Dev			
84	P	Phenanthrene	1.181	1.087	8.0	100	0.01	10.33
85	P	Anthracene	1.223	1.136	7.1	99	0.02	10.39
86		Disulfoton	0.488	0.423	13.3	99	0.01	10.42
87	P	Carbazole	1.162	1.082	6.9	97	0.01	10.61
88		Methyl Parathion	0.312	0.301	3.5	99	0.01	10.85
89	P	Di-n-butylphthalate	1.405	1.316	6.3	99	0.01	11.14
90		Ethyl Parathion	0.205	0.195	4.9	99	0.01	11.33
91	P	Fluoranthene	1.228	1.166	5.0	100	0.01	11.72
92	I	Chrysene-d12	1.000	1.000	0.0	101	0.02	13.43
93		Benzidine	0.662	0.609	8.0	101	0.00	11.93
94	P	Pyrene	1.492	1.347	9.7	100	0.01	11.97
95	S	Terphenyl-d14	0.928	0.863	7.0	101	0.01	12.23
			Amount	Calc.	%Drift			
96		Famphur	50.000	44.328	11.3	100	0.02	12.82
			AvgRF	CCRF	%Dev			
97	P	Butylbenzylphthalate	0.730	0.682	6.6	100	0.01	12.88
98	P	3,3'-Dichlorobenzidine	0.409	0.395	3.4	100	0.02	13.45
99	P	Benzo[a]anthracene	1.284	1.179	8.2	100	0.02	13.41
100	P	Chrysene	1.239	1.143	7.7	101	0.02	13.47
101	P	bis(2-Ethylhexyl)phthalat	0.974	0.912	6.4	101	0.02	13.66
102	I	Perylene-d12	1.000	1.000	0.0	102	0.02	15.35
103	P	Di-n-octylphthalate	1.733	1.645	5.1	101	0.02	14.48
104	P	Benzo[b]fluoranthene	1.218	1.168	4.1	105	0.02	14.84
105	P	Benzo[k]fluoranthene	1.250	1.116	10.7	97	0.03	14.87
106	P	Benzo[a]pyrene	1.184	1.126	4.9	102	0.02	15.27
107	P	Indeno[1,2,3-cd]pyrene	0.922	0.875	5.1	98	0.03	17.03
108	P	Dibenz[a,h]anthracene	0.967	0.943	2.5	100	0.02	17.08
109	P	Benzo[g,h,i]perylene	1.040	0.978	6.0	101	0.03	17.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x059371.D 8270d032118.m Fri Mar 23 10:15:43 2018

7.7.12

7

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059408.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\0321_sx2484\x059408.D Vial: 2
Acq On : 22 Mar 2018 3:45 am Operator: marthav
Sample : cc2484-50 Inst : MSBNA05
Misc : op69203,sx2484,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Fri Mar 23 08:16:22 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	5.15
2		1,4-Dioxane	0.681	0.632	7.2	97	-0.02	1.99
3		N-nitrosodimethylamine	0.852	0.781	8.3	104	-0.03	2.38
4		Pyridine	1.750	1.654	5.5	98	-0.05	2.36
5	P	Benzaldehyde	1.064	0.985	7.4	100	0.00	4.69
6		Aniline	2.259	2.329	-3.1	101	0.00	4.86
7	S	2-Fluorophenol	1.487	1.496	-0.6	101	-0.02	3.89
8	P	bis(2-Chloroethyl)ether	1.554	1.525	1.9	102	0.00	4.94
9	S	Phenol-d5	1.974	1.957	0.9	101	0.00	4.92
10	P	Phenol	2.125	2.111	0.7	101	0.00	4.94
11	P	2-Chlorophenol	1.530	1.521	0.6	100	0.00	4.98
12		1,3-Dichlorobenzene	1.609	1.575	2.1	101	0.00	5.11
13		1,4-Dichlorobenzene	1.640	1.593	2.9	101	0.00	5.17
14		1,2-Dichlorobenzene	1.568	1.541	1.7	100	0.00	5.37
15		Benzyl alcohol	1.001	1.040	-3.9	102	0.00	5.37
16	P	bis(2-chloroisopropyl)eth	2.194	1.940	11.6	100	0.00	5.53
17	P	2-Methylphenol	1.438	1.438	0.0	104	0.00	5.56
18	P	Acetophenone	2.104	2.087	0.8	102	0.00	5.64
19	P	Hexachloroethane	0.697	0.672	3.6	102	0.00	5.70
20	P	N-Nitroso-di-n-propylamin	1.186	1.119	5.6	101	0.02	5.70
21	P	3&4-Methylphenol	1.532	1.501	2.0	99	0.00	5.73
22	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	6.57
23	S	Nitrobenzene-d5	0.470	0.445	5.3	102	0.00	5.80
24	P	Nitrobenzene	0.472	0.438	7.2	100	0.00	5.82
25	P	Isophorone	0.843	0.799	5.2	102	0.01	6.09
26	P	2-Nitrophenol	0.216	0.217	-0.5	101	0.00	6.18
27	P	2,4-Dimethylphenol	0.418	0.407	2.6	102	0.00	6.29
28		O,O,O-Triethylphosphoroth	0.160	0.154	3.8	100	0.01	6.40
29	P	bis(2-Chloroethoxy)methan	0.515	0.495	3.9	101	0.00	6.37
		----------	Amount	Calc.	%Drift		----------	
30		Benzoic Acid	50.000	48.726	2.5	99	0.06	6.51
		----------	AvgRF	CCRF	%Dev		----------	
31	P	2,4-Dichlorophenol	0.317	0.317	0.0	101	0.00	6.48
32		1,2,4-Trichlorobenzene	0.325	0.320	1.5	103	0.00	6.53
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	1.152	1.113	3.4	101	0.01	6.59
35	P	4-Chloroaniline	0.443	0.458	-3.4	100	0.00	6.72
36		2,6-Dichlorophenol	0.328	0.331	-0.9	102	0.00	6.72
37	P	Hexachlorobutadiene	0.179	0.170	5.0	102	0.00	6.82

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059408.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	Caprolactam	0.127	0.118	7.1	97	0.10	7.13
39	P	4-Chloro-3-methylphenol	0.361	0.361	0.0	103	0.00	7.34
40	P	2-Methylnaphthalene	0.654	0.641	2.0	104	0.00	7.39
41		1-Methylnaphthalene	0.732	0.714	2.5	102	0.00	7.51
42	P	1,2,4,5-Tetrachlorobenzen	0.336	0.333	0.9	103	0.00	7.63
43	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	8.60
		----------	Amount	Calc.	%Drift			
44	P	Hexachlorocyclopentadiene	50.000	44.853	10.3	99	0.00	7.66
		----------	AvgRF	CCRF	%Dev			
45	P	2,4,6-Trichlorophenol	0.406	0.383	5.7	105	0.00	7.78
46	P	2,4,5-Trichlorophenol	0.427	0.410	4.0	105	0.00	7.84
47	S	2-Fluorobiphenyl	1.543	1.436	6.9	104	0.01	7.86
48	P	1,1'-Biphenyl	1.734	1.545	10.9	102	0.00	7.95
49	P	2-Chloronaphthalene	1.341	1.240	7.5	103	0.00	7.94
50	P	2-Nitroaniline	0.494	0.445	9.9	102	0.01	8.13
51		p-Dinitrobenzene	0.322	0.310	3.7	105	0.00	8.27
52	P	Acenaphthylene	2.105	1.928	8.4	103	0.01	8.42
53	P	Dimethylphthalate	1.543	1.428	7.5	104	0.02	8.40
54		m-Dinitrobenzene	0.254	0.248	2.4	102	0.00	8.41
55	P	2,6-Dinitrotoluene	0.363	0.338	6.9	102	0.02	8.47
56		o-Dinitrobenzene	0.244	0.209	14.3	104	0.02	8.54
57	P	Acenaphthene	1.382	1.272	8.0	104	0.01	8.64
58	P	3-Nitroaniline	0.382	0.369	3.4	105	0.01	8.63
		----------	Amount	Calc.	%Drift			
59	P	2,4-Dinitrophenol	50.000	45.318	9.4	104	0.00	8.74
		----------	AvgRF	CCRF	%Dev			
60	P	Dibenzofuran	1.901	1.743	8.3	103	0.01	8.83
61	P	2,4-Dinitrotoluene	0.468	0.459	1.9	105	0.01	8.92
		----------	Amount	Calc.	%Drift			
62	P	4-Nitrophenol	50.000	47.883	4.2	113	-0.03	8.92
		----------	AvgRF	CCRF	%Dev			
63		2,3,5,6-Tetrachlorophenol	0.298	0.297	0.3	105	0.00	9.00
64	P	2,3,4,6-Tetrachlorophenol	0.324	0.322	0.6	107	0.00	9.05
65	P	Fluorene	1.533	1.419	7.4	105	0.01	9.23
66	P	4-Chlorophenyl-phenylethe	0.683	0.642	6.0	105	0.01	9.26
67	P	Diethylphthalate	1.551	1.417	8.6	105	0.02	9.24
68		Thionazin	0.395	0.351	11.1	104	0.02	9.33
69	P	4-Nitroaniline	0.409	0.402	1.7	105	0.03	9.36
70	I	Phenanthrene-d10	1.000	1.000	0.0	106	0.01	10.31
		----------	Amount	Calc.	%Drift			
71	P	4,6-Dinitro-2-methylpheno	50.000	44.487	11.0	102	0.01	9.40
		----------	AvgRF	CCRF	%Dev			
72	P	n-Nitrosodiphenylamine	0.639	0.555	13.1	103	0.02	9.42
73		Diphenylamine	0.732	0.666	9.0	103	0.02	9.42
74		1,2-Diphenylhydrazine	1.142	1.017	10.9	106	0.01	9.43
75	S	2,4,6-Tribromophenol	0.085	0.084	1.2	108	0.01	9.55
76		Sulfotep	0.169	0.150	11.2	106	0.00	9.75
77		Phorate	0.636	0.559	12.1	104	0.01	9.81
78	P	4-Bromophenyl-phenylether	0.206	0.192	6.8	106	0.00	9.81
79	P	Hexachlorobenzene	0.200	0.190	5.0	105	0.01	9.96

7.7.13

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Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-CC2484
Account: CSXT CSX Transportation **Lab FileID:** X059408.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

80		Dimethoate	0.374	0.340	9.1	104	0.02	10.02
81		Simazine	0.102	0.104	-2.0	102	0.04	10.08
82	P	Atrazine	0.224	0.195	12.9	104	0.03	10.12
			Amount	Calc.	%Drift			
83	P	Pentachlorophenol	50.000	50.352	-0.7	115	0.01	10.20
			AvgRF	CCRF	%Dev			
84	P	Phenanthrene	1.181	1.057	10.5	105	0.01	10.33
85	P	Anthracene	1.223	1.111	9.2	104	0.02	10.39
86		Disulfoton	0.488	0.424	13.1	107	0.01	10.42
87	P	Carbazole	1.162	1.070	7.9	104	0.01	10.61
88		Methyl Parathion	0.312	0.294	5.8	105	0.01	10.85
89	P	Di-n-butylphthalate	1.405	1.303	7.3	106	0.01	11.14
90		Ethyl Parathion	0.205	0.193	5.9	106	0.01	11.33
91	P	Fluoranthene	1.228	1.133	7.7	106	0.01	11.72
92	I	Chrysene-d12	1.000	1.000	0.0	106	0.02	13.43
93		Benzidine	0.662	0.582	12.1	100	0.00	11.93
94	P	Pyrene	1.492	1.367	8.4	106	0.01	11.97
95	S	Terphenyl-d14	0.928	0.889	4.2	108	0.01	12.23
			Amount	Calc.	%Drift			
96		Famphur	50.000	44.184	11.6	104	0.02	12.82
			AvgRF	CCRF	%Dev			
97	P	Butylbenzylphthalate	0.730	0.686	6.0	105	0.01	12.88
98	P	3,3'-Dichlorobenzidine	0.409	0.415	-1.5	110	0.02	13.45
99	P	Benzo[a]anthracene	1.284	1.204	6.2	107	0.01	13.41
100	P	Chrysene	1.239	1.151	7.1	107	0.02	13.47
101	P	bis(2-Ethylhexyl)phthalat	0.974	0.939	3.6	109	0.01	13.65
102	I	Perylene-d12	1.000	1.000	0.0	104	0.02	15.35
103	P	Di-n-octylphthalate	1.733	1.693	2.3	107	0.02	14.48
104	P	Benzo[b]fluoranthene	1.218	1.138	6.6	104	0.02	14.83
105	P	Benzo[k]fluoranthene	1.250	1.202	3.8	107	0.03	14.87
106	P	Benzo[a]pyrene	1.184	1.149	3.0	106	0.02	15.27
107	P	Indeno[1,2,3-cd]pyrene	0.922	0.881	4.4	101	0.03	17.03
108	P	Dibenz[a,h]anthracene	0.967	0.919	5.0	100	0.02	17.08
109	P	Benzo[g,h,i]perylene	1.040	0.955	8.2	101	0.03	17.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x059371.D 8270d032118.m Fri Mar 23 10:16:57 2018

7.7.13

7

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ECC2484
Account: CSXT CSX Transportation **Lab FileID:** X059434.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\0321_sx2484\x059434.D Vial: 2
Acq On : 22 Mar 2018 2:32 pm Operator: marthav
Sample : ecc2484-50 Inst : MSBNA05
Misc : op69203,sx2484,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270d032118.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Fri Mar 23 08:16:22 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	5.15
2		1,4-Dioxane	0.681	0.619	9.1	95	-0.02	1.99
3		N-nitrosodimethylamine	0.852	0.765	10.2	101	-0.03	2.38
4		Pyridine	1.750	1.691	3.4	100	-0.04	2.36
5	P	Benzaldehyde	1.064	0.969	8.9	98	0.00	4.69
6		Aniline	2.259	2.292	-1.5	98	0.00	4.86
7	S	2-Fluorophenol	1.487	1.506	-1.3	101	-0.02	3.89
8	P	bis(2-Chloroethyl)ether	1.554	1.518	2.3	101	0.00	4.94
9	S	Phenol-d5	1.974	1.970	0.2	101	0.00	4.93
10	P	Phenol	2.125	2.100	1.2	100	0.00	4.94
11	P	2-Chlorophenol	1.530	1.520	0.7	99	0.00	4.98
12		1,3-Dichlorobenzene	1.609	1.570	2.4	100	0.00	5.11
13		1,4-Dichlorobenzene	1.640	1.600	2.4	101	0.00	5.17
14		1,2-Dichlorobenzene	1.568	1.531	2.4	99	0.00	5.37
15		Benzyl alcohol	1.001	1.064	-6.3	104	0.00	5.37
16	P	bis(2-chloroisopropyl)eth	2.194	1.904	13.2	98	0.00	5.53
17	P	2-Methylphenol	1.438	1.433	0.3	103	0.00	5.56
18	P	Acetophenone	2.104	2.050	2.6	100	0.00	5.64
19	P	Hexachloroethane	0.697	0.662	5.0	100	0.00	5.70
20	P	N-Nitroso-di-n-propylamin	1.186	1.110	6.4	100	0.02	5.70
21	P	3&4-Methylphenol	1.532	1.505	1.8	99	0.00	5.73
22	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00	6.57
23	S	Nitrobenzene-d5	0.470	0.446	5.1	101	0.00	5.80
24	P	Nitrobenzene	0.472	0.443	6.1	100	0.00	5.82
25	P	Isophorone	0.843	0.798	5.3	100	0.01	6.09
26	P	2-Nitrophenol	0.216	0.218	-0.9	101	0.00	6.18
27	P	2,4-Dimethylphenol	0.418	0.412	1.4	102	0.01	6.30
28		O,O,O-Triethylphosphoroth	0.160	0.152	5.0	98	0.01	6.40
29	P	bis(2-Chloroethoxy)methan	0.515	0.486	5.6	98	0.01	6.37
		----------	Amount	Calc.	%Drift		----------	
30		Benzoic Acid	50.000	48.531	2.9	97	0.06	6.51
		----------	AvgRF	CCRF	%Dev		----------	
31	P	2,4-Dichlorophenol	0.317	0.325	-2.5	102	0.00	6.48
32		1,2,4-Trichlorobenzene	0.325	0.318	2.2	101	0.00	6.53
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	1.152	1.114	3.3	100	0.01	6.59
35	P	4-Chloroaniline	0.443	0.455	-2.7	98	0.00	6.72
36		2,6-Dichlorophenol	0.328	0.332	-1.2	101	0.00	6.72
37	P	Hexachlorobutadiene	0.179	0.172	3.9	101	0.00	6.82

Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ECC2484
Account: CSXT CSX Transportation **Lab FileID:** X059434.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

38	P	Caprolactam	0.127	0.122	3.9	99	0.10	7.13
39	P	4-Chloro-3-methylphenol	0.361	0.367	-1.7	104	0.00	7.34
40	P	2-Methylnaphthalene	0.654	0.644	1.5	103	0.00	7.39
41		1-Methylnaphthalene	0.732	0.723	1.2	102	0.00	7.51
42	P	1,2,4,5-Tetrachlorobenzen	0.336	0.329	2.1	100	0.00	7.63
43	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	8.60
		----------	Amount	Calc.	%Drift	----------		
44	P	Hexachlorocyclopentadiene	50.000	43.452	13.1	94	0.00	7.65
		----------	AvgRF	CCRF	%Dev	----------		
45	P	2,4,6-Trichlorophenol	0.406	0.385	5.2	104	0.00	7.78
46	P	2,4,5-Trichlorophenol	0.427	0.414	3.0	104	0.00	7.85
47	S	2-Fluorobiphenyl	1.543	1.432	7.2	102	0.01	7.86
48	P	1,1'-Biphenyl	1.734	1.601	7.7	104	0.00	7.95
49	P	2-Chloronaphthalene	1.341	1.258	6.2	103	0.00	7.94
50	P	2-Nitroaniline	0.494	0.454	8.1	103	0.01	8.13
51		p-Dinitrobenzene	0.322	0.317	1.6	105	0.00	8.27
52	P	Acenaphthylene	2.105	1.947	7.5	102	0.01	8.42
53	P	Dimethylphthalate	1.543	1.445	6.4	104	0.02	8.41
54		m-Dinitrobenzene	0.254	0.252	0.8	102	0.00	8.41
55	P	2,6-Dinitrotoluene	0.363	0.346	4.7	102	0.02	8.47
56		o-Dinitrobenzene	0.244	0.213	12.7	104	0.02	8.54
57	P	Acenaphthene	1.382	1.290	6.7	104	0.01	8.64
58	P	3-Nitroaniline	0.382	0.376	1.6	105	0.01	8.63
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol	50.000	40.797	18.4	91	0.00	8.74
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran	1.901	1.773	6.7	103	0.01	8.83
61	P	2,4-Dinitrotoluene	0.468	0.460	1.7	104	0.01	8.92
		----------	Amount	Calc.	%Drift	----------		
62	P	4-Nitrophenol	50.000	47.779	4.4	110	-0.02	8.93
		----------	AvgRF	CCRF	%Dev	----------		
63		2,3,5,6-Tetrachlorophenol	0.298	0.301	-1.0	104	0.00	9.00
64	P	2,3,4,6-Tetrachlorophenol	0.324	0.317	2.2	104	0.00	9.05
65	P	Fluorene	1.533	1.441	6.0	104	0.01	9.23
66	P	4-Chlorophenyl-phenylethe	0.683	0.655	4.1	105	0.01	9.26
67	P	Diethylphthalate	1.551	1.446	6.8	105	0.02	9.24
68		Thionazin	0.395	0.360	8.9	104	0.02	9.33
69	P	4-Nitroaniline	0.409	0.406	0.7	104	0.03	9.36
70	I	Phenanthrene-d10	1.000	1.000	0.0	106	0.01	10.31
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno	50.000	41.238	17.5	95	0.02	9.40
		----------	AvgRF	CCRF	%Dev	----------		
72	P	n-Nitrosodiphenylamine	0.639	0.558	12.7	104	0.02	9.42
73		Diphenylamine	0.732	0.670	8.5	104	0.02	9.42
74		1,2-Diphenylhydrazine	1.142	0.992	13.1	104	0.01	9.43
75	S	2,4,6-Tribromophenol	0.085	0.085	0.0	109	0.00	9.54
76		Sulfotep	0.169	0.147	13.0	105	0.00	9.75
77		Phorate	0.636	0.552	13.2	103	0.01	9.81
78	P	4-Bromophenyl-phenylether	0.206	0.193	6.3	107	0.00	9.81
79	P	Hexachlorobenzene	0.200	0.193	3.5	108	0.01	9.96

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Continuing Calibration Summary

Job Number: FA52495 **Sample:** SX2484-ECC2484
Account: CSXT CSX Transportation **Lab FileID:** X059434.D
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

80		Dimethoate	0.374	0.337	9.9	103	0.03	10.02
81		Simazine	0.102	0.102	0.0	100	0.04	10.08
82	P	Atrazine	0.224	0.193	13.8	104	0.03	10.12
			Amount	Calc.	%Drift			
83	P	Pentachlorophenol	50.000	48.840	2.3	111	0.01	10.20
			AvgRF	CCRF	%Dev			
84	P	Phenanthrene	1.181	1.062	10.1	106	0.01	10.33
85	P	Anthracene	1.223	1.107	9.5	105	0.02	10.39
86		Disulfoton	0.488	0.419	14.1	107	0.01	10.42
87	P	Carbazole	1.162	1.070	7.9	105	0.01	10.61
88		Methyl Parathion	0.312	0.286	8.3	103	0.01	10.85
89	P	Di-n-butylphthalate	1.405	1.293	8.0	106	0.01	11.14
90		Ethyl Parathion	0.205	0.192	6.3	106	0.01	11.33
91	P	Fluoranthene	1.228	1.142	7.0	107	0.01	11.72
92	I	Chrysene-d12	1.000	1.000	0.0	106	0.02	13.43
93		Benzidine	0.662	0.528	20.2	92	0.00	11.93
94	P	Pyrene	1.492	1.364	8.6	107	0.01	11.97
95	S	Terphenyl-d14	0.928	0.882	5.0	108	0.01	12.23
			Amount	Calc.	%Drift			
96		Famphur	50.000	42.637	14.7	101	0.02	12.82
			AvgRF	CCRF	%Dev			
97	P	Butylbenzylphthalate	0.730	0.684	6.3	106	0.01	12.88
98	P	3,3'-Dichlorobenzidine	0.409	0.409	0.0	109	0.02	13.45
99	P	Benzo[a]anthracene	1.284	1.189	7.4	106	0.01	13.41
100	P	Chrysene	1.239	1.147	7.4	107	0.02	13.47
101	P	bis(2-Ethylhexyl)phthalat	0.974	0.932	4.3	109	0.01	13.65
102	I	Perylene-d12	1.000	1.000	0.0	101	0.02	15.35
103	P	Di-n-octylphthalate	1.733	1.735	-0.1	106	0.02	14.48
104	P	Benzo[b]fluoranthene	1.218	1.163	4.5	104	0.02	14.83
105	P	Benzo[k]fluoranthene	1.250	1.200	4.0	103	0.03	14.87
106	P	Benzo[a]pyrene	1.184	1.147	3.1	103	0.02	15.27
107	P	Indeno[1,2,3-cd]pyrene	0.922	0.860	6.7	95	0.02	17.03
108	P	Dibenz[a,h]anthracene	0.967	0.921	4.8	98	0.02	17.08
109	P	Benzo[g,h,i]perylene	1.040	0.954	8.3	98	0.03	17.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x059371.D 8270d032118.m Fri Mar 23 10:13:22 2018

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Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:30	MA14760-STD1	1		STDA
09:34	MA14760-STD2	1		STDB
09:37	MA14760-STD3	1		STDC
09:40	MA14760-STD4	1		STDD
09:44	MA14760-HSTD1	1		
09:51	MA14760-ICV1	1		
10:00	MA14760-ICB1	1		
10:04	MA14760-CRIA1	1		
10:10	MA14760-ICSA1	1		
10:16	MA14760-ICSAB1	1		
10:22	MA14760-CCV1	1		
10:28	MA14760-CCB1	1		
10:32	FA52453-6	10		(sample used for QC only; not part of login FA52495)
10:36	MP33471-D1	10		
10:40	MP33471-S1	10		
10:44	MP33471-S2	10		
10:48	MP33471-PS1	10		
10:52	MP33471-SD1	50		
10:57	ZZZZZZ	10		
11:01	ZZZZZZ	5		
11:05	ZZZZZZ	5		
11:09	ZZZZZZ	10		
11:13	MA14760-CCV2	1		
11:17	MA14760-CCB2	1		
11:44	MA14760-CCV3	1		
11:50	MA14760-CCB3	1		
11:54	ZZZZZZ	4		
11:58	MP33476-MB1	1		
12:03	MP33476-B1	1		
12:06	FA52403-2	1		(sample used for QC only; not part of login FA52495)
12:11	MP33476-D1	1		
12:15	MP33476-SD1	5		
12:20	MP33476-PS1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:24	MP33476-S1	1		
12:28	MP33476-S2	1		
12:32	ZZZZZZ	1		
12:36	MA14760-CCV4	1		
12:40	MA14760-CCB4	1		
12:45	ZZZZZZ	1		
12:49	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:23	FA52495-1F	1		
13:27	MA14760-CCV5	1		
13:31	MA14760-CCB5	1		
13:35	FA52495-2F	1		
13:40	FA52495-3F	1		
---------->	Last reportable sample/prep for job FA52495			
13:44	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:19	MA14760-CCV6	1		
14:27	MA14760-CCB6	1		
15:14	MA14760-CCV7	1		
15:18	MA14760-CCB7	1		
15:31	MP33479-MB1	1		
15:36	MP33479-B1	1		
15:40	FA52453-4	5		(sample used for QC only; not part of login FA52495)
15:44	MP33479-D1	5		
15:48	MP33479-SD1	25		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:52	MP33479-PS1	5		
15:57	MP33479-S1	5		
16:01	MP33479-S2	5		
16:05	MA14760-CCV8	1		
16:09	MA14760-CCB8	1		
16:13	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:21	ZZZZZZ	5		
16:25	ZZZZZZ	5		
16:30	ZZZZZZ	1		
16:34	ZZZZZZ	1		
16:38	ZZZZZZ	20		
16:42	MP33478-MB1	1		
16:47	MP33478-B1	1		
16:51	FA52586-5	1		(sample used for QC only; not part of login FA52495)
16:55	MA14760-CCV9	1		
16:59	MA14760-CCB9	1		
17:03	MP33478-D1	1		
17:07	MP33478-SD1	5		
17:12	MP33478-PS1	1		
17:16	MP33478-S1	1		
17:20	MP33478-S2	1		
17:24	ZZZZZZ	1		
17:28	ZZZZZZ	1		
17:32	ZZZZZZ	1		
17:36	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:45	MA14760-CCV10	1		
17:49	MA14760-CCB10	1		
17:53	ZZZZZZ	1		
17:57	ZZZZZZ	1		
18:02	ZZZZZZ	1		
18:06	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:10	ZZZZZZ	1		
18:14	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:23	ZZZZZZ	1		
18:27	ZZZZZZ	1		
18:31	ZZZZZZ	1		
18:35	MA14760-CCV11	1		
18:39	MA14760-CCB11	1		
18:44	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:56	MA14760-CRIA2	1		
19:01	MA14760-ICSA2	1		
19:05	MA14760-ICSAB2	1		
19:09	MA14760-CCV12	1		
19:13	MA14760-CCB12	1		

----------> Last reportable CCB for job FA52495
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:30	MA14760-STD1	4376	29839	2305	1513
09:34	MA14760-STD2	4313	29382	2313	1425
09:37	MA14760-STD3	4208	28893	2310	1323
09:40	MA14760-STD4	4070	28169	2292	1238
09:44	MA14760-HSTD1	4081	28322	2335	1242
09:51	MA14760-ICV1	4114	28179	2253	1303
10:00	MA14760-ICB1	4249 R	28694 R	2245 R	1476 R
10:04	MA14760-CRIA1	4260	28793	2286	1448
10:10	MA14760-ICSA1	3820	25686	2202	1165
10:16	MA14760-ICSAB1	3782	25590	2194	1142
10:22	MA14760-CCV1	4071	27565	2241	1292
10:28	MA14760-CCB1	4247	28504	2244	1484
10:32	FA52453-6	4214	28293	2346	1270
10:36	MP33471-D1	4233	28427	2372	1240
10:40	MP33471-S1	4212	28128	2354	1259
10:44	MP33471-S2	4204	28218	2362	1241
10:48	MP33471-PS1	4198	28341	2355	1252
10:52	MP33471-SD1	4149	27915	2272	1379
10:57	ZZZZZZ	4180	28239	2327	1261
11:01	ZZZZZZ	4154	27967	2288	1375
11:05	ZZZZZZ	4160	28002	2272	1381
11:09	ZZZZZZ	4320	28804	2344	1372
11:13	MA14760-CCV2	4043	27320	2229	1287
11:17	MA14760-CCB2	4204	27949	2238	1476
11:44	MA14760-CCV3	4009	26945	2195	1281
11:50	MA14760-CCB3	4173	27759	2210	1474
11:54	ZZZZZZ	4098	27413	2244	1406
11:58	MP33476-MB1	4152	27913	2198	1474
12:03	MP33476-B1	4047	27195	2221	1343
12:06	FA52403-2	3618	24291	2130	1104
12:11	MP33476-D1	3626	24465	2165	1113
12:15	MP33476-SD1	3937	26548	2198	1278
12:20	MP33476-PS1	3633	24622	2199	1112

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:24	MP33476-S1	3689	25239	2258	1103
12:28	MP33476-S2	3679	25125	2205	1097
12:32	ZZZZZZ	3770	25521	2193	1181
12:36	MA14760-CCV4	4013	27034	2205	1284
12:40	MA14760-CCB4	4179	27835	2203	1475
12:45	ZZZZZZ	3737	24946	2139	1170
12:49	ZZZZZZ	4107	27649	2214	1446
12:53	ZZZZZZ	4057	27765	2189	1410
12:57	ZZZZZZ	4064	27408	2201	1414
13:02	ZZZZZZ	3954	26512	2157	1342
13:06	ZZZZZZ	3941	26688	2137	1343
13:10	ZZZZZZ	3867	26215	2163	1296
13:14	ZZZZZZ	3806	25934	2140	1258
13:19	ZZZZZZ	3918	26691	2165	1334
13:23	FA52495-1F	3925	26389	2146	1335
13:27	MA14760-CCV5	3987	26479	2162	1292
13:31	MA14760-CCB5	4158	27149	2166	1490
13:35	FA52495-2F	3523	23333	2097	1108
13:40	FA52495-3F	3815	25487	2138	1240
13:44	ZZZZZZ	3189	21571	2027	963
13:49	ZZZZZZ	3647	24854	2191	1173
13:53	ZZZZZZ	3186	22033	2142	957
13:58	ZZZZZZ	3650	24296	2142	1089
14:02	ZZZZZZ	4245	28715	2325	1472
14:19	MA14760-CCV6	4038	27076	2237	1296
14:27	MA14760-CCB6	4206	28142	2268	1483
15:14	MA14760-CCV7	3951	26212	2153	1273
15:18	MA14760-CCB7	4176	27463	2180	1484
15:31	MP33479-MB1	4116	27079	2135	1483
15:36	MP33479-B1	4016	26634	2150	1348
15:40	FA52453-4	4196	27295	2302	1222
15:44	MP33479-D1	4266	27633	2353	1208
15:48	MP33479-SD1	4136	26984	2208	1373

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:52	MP33479-PS1	4168	26872	2270	1226
15:57	MP33479-S1	4264	27385	2354	1217
16:01	MP33479-S2	4278	27411	2362	1202
16:05	MA14760-CCV8	3952	26041	2139	1277
16:09	MA14760-CCB8	4110	26633	2156	1472
16:13	ZZZZZZ	4592	29984	2480	1332
16:17	ZZZZZZ	4676	30901	2540	1354
16:21	ZZZZZZ	4074	26773	2224	1277
16:25	ZZZZZZ	4047	26477	2231	1234
16:30	ZZZZZZ	3661	24476	2130	1036
16:34	ZZZZZZ	4006	26579	2263	1144
16:38	ZZZZZZ	4089	26496	2170	1418
16:42	MP33478-MB1	4116	26841	2118	1495
16:47	MP33478-B1	3976	25877	2109	1348
16:51	FA52586-5	4118	26674	2128	1459
16:55	MA14760-CCV9	3953	25934	2098	1285
16:59	MA14760-CCB9	4125	26702	2108	1485
17:03	MP33478-D1	4183	27164	2161	1464
17:07	MP33478-SD1	4163	27070	2152	1499
17:12	MP33478-PS1	4114	26575	2143	1423
17:16	MP33478-S1	4058	26111	2134	1341
17:20	MP33478-S2	4061	26152	2156	1348
17:24	ZZZZZZ	4159	26629	2128	1456
17:28	ZZZZZZ	4141	26424	2172	1438
17:32	ZZZZZZ	4172	26802	2147	1457
17:36	ZZZZZZ	4188	27123	2167	1469
17:41	ZZZZZZ	4187	26978	2156	1454
17:45	MA14760-CCV10	3961	25662	2099	1290
17:49	MA14760-CCB10	4091	26305	2098	1480
17:53	ZZZZZZ	4127	26769	2126	1470
17:57	ZZZZZZ	4165	26857	2150	1460
18:02	ZZZZZZ	4176	27130	2153	1465
18:06	ZZZZZZ	4175	27158	2151	1460

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14760
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:10	ZZZZZZ	4329	27931	2259	1427
18:14	ZZZZZZ	4179	26901	2160	1465
18:18	ZZZZZZ	4210	27104	2194	1467
18:23	ZZZZZZ	4191	26940	2202	1456
18:27	ZZZZZZ	4149	27107	2218	1435
18:31	ZZZZZZ	4181	27069	2183	1463
18:35	MA14760-CCV11	3977	25952	2142	1300
18:39	MA14760-CCB11	4136	27152	2180	1498
18:44	ZZZZZZ	4177	27621	2176	1498
18:48	ZZZZZZ	4226	27688	2252	1456
18:52	ZZZZZZ	4212	27680	2250	1477
18:56	MA14760-CRIA2	4132	27252	2226	1466
19:01	MA14760-ICSA2	3710	24612	2171	1163
19:05	MA14760-ICSAB2	3683	24284	2132	1142
19:09	MA14760-CCV12	3995	26693	2222	1304
19:13	MA14760-CCB12	4173	27612	2212	1509

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14760 Units: ug/l

Time: / Sample ID:			10:00 ICB1		10:28 CCB1		11:17 CCB2		11:50 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	anr							
Arsenic	10	1.3	0.40	<10	0.60	<10	1.0	<10	-0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.10	<5.0	0.20	<5.0	0.10	<5.0	0.20	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14760 Units: ug/l

Time:			12:40		13:31		14:27		15:18	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	anr							
Arsenic	10	1.3	0.40	<10	0.40	<10	0.20	<10	-0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.10	<5.0	-0.10	<5.0	-0.20	<5.0	0.30	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14760 Units: ug/l

Time: / Sample ID:			16:09 CCB8		16:59 CCB9		17:49 CCB10		18:39 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	anr							
Arsenic	10	1.3	0.50	<10	0.30	<10	0.40	<10	-1.0	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	-0.30	<5.0	-0.70	<5.0	-0.20	<5.0	-0.20	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14760 Units: ug/l

Time:			19:13	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	14	anr	
Antimony	6.0	1	anr	
Arsenic	10	1.3	0.90	<10
Barium	200	1	anr	
Beryllium	4.0	.2	anr	
Cadmium	5.0	.2	anr	
Calcium	1000	50	anr	
Chromium	10	1	anr	
Cobalt	50	.2	anr	
Copper	25	1	anr	
Iron	300	17	anr	
Lead	5.0	1	-0.20	<5.0
Magnesium	5000	35	anr	
Manganese	15	.5	anr	
Molybdenum	50	.3		
Nickel	40	.4	anr	
Potassium	10000	200	anr	
Selenium	10	2.4	anr	
Silver	10	.7	anr	
Sodium	10000	500	anr	
Strontium	10	.5		
Thallium	10	1.1	anr	
Tin	50	.9		
Titanium	10	.5		
Vanadium	50	.5	anr	
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14760 Units: ug/l

Time:		09:51			10:22			11:13	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2080	104.0	2000	2110	105.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14760 Units: ug/l

Time:		11:44			12:36			13:27	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2010	100.5	2000	2020	101.0	2000	2070	103.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	2010	100.5	2000	1990	99.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14760 Units: ug/l

Time:		14:19			15:14			16:05	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2100	105.0	2000	2090	104.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	2030	101.5	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14760 Units: ug/l

Time:		16:55			17:45			18:35	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2100	105.0	2000	2090	104.5	2000	2100	105.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1980	99.0	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14760 Units: ug/l

Time:		19:09	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2000	2120	106.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	1970	98.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA14760 Units: ug/l

Time:		09:44	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	4000	3970	99.3
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	3970	99.3
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA14760 Units: ug/l

Time:			10:04		18:56	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	anr			
Arsenic	20	10	11.1	111.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	5.0	100.0	4.1	82.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SB032118M1.ICP Date Analyzed: 03/21/18 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA14760 Units: ug/l

Time:			10:10		10:16		19:01		19:05	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	518000	103.6	519000	103.8	519000	103.8	525000	105.0
Antimony		1000	-0.10		980	98.0	1.4		998	99.8
Arsenic		1000	0.50		1060	106.0	-0.50		1080	108.0
Barium		500	0.20		506	101.2	0.0		517	103.4
Beryllium		500	-0.20		507	101.4	0.0		525	105.0
Cadmium		1000	0.0		928	92.8	2.1		935	93.5
Calcium	500000	500000	468000	93.6	462000	92.4	462000	92.4	465000	93.0
Chromium		500	0.30		489	97.8	-0.40		497	99.4
Cobalt		500	0.10		474	94.8	-0.10		478	95.6
Copper		500	0.0		554	110.8	2.1		578	115.6
Iron	200000	200000	184000	92.0	186000	93.0	184000	92.0	187000	93.5
Lead		1000	0.10		941	94.1	-5.1		934	93.4
Magnesium	500000	500000	517000	103.4	511000	102.2	518000	103.6	517000	103.4
Manganese		500	0.0		505	101.0	0.10		518	103.6
Molybdenum		1000	-0.80		870	87.0	0.60		875	87.5
Nickel		1000	-0.20		963	96.3	-0.20		980	98.0
Potassium			20.8		42.5		28.0		32.1	
Selenium		1000	0.0		950	95.0	2.0		977	97.7
Silver		1000	0.0		1050	105.0	1.3		1080	108.0
Sodium			134		165		144		143	
Strontium		1000	0.60		971	97.1	1.5		1010	101.0
Thallium		1000	-0.80		895	89.5	0.70		882	88.2
Tin		1000	0.50		875	87.5	1.1		860	86.0
Titanium		1000	-1.6		959	95.9	-1.5		973	97.3
Vanadium		500	-0.40		475	95.0	-0.70		480	96.0
Zinc		1000	0.80		927	92.7	0.0		927	92.7

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:01	MA14768-STD1	1		STDA
10:05	MA14768-STD2	1		STDB
10:08	MA14768-STD3	1		STDC
10:11	MA14768-STD4	1		STDD
10:15	MA14768-HSTD1	1		
10:28	MA14768-ICV1	1		
10:35	MA14768-ICB1	1		
10:47	MA14768-CRIA1	1		
10:54	MA14768-ICSA1	1		
11:01	MA14768-ICSAB1	1		
11:08	MA14768-CCV1	1		
11:15	MA14768-CCB1	1		
11:42	MA14768-CCV2	1		
11:48	MA14768-CCB2	1		
12:15	ZZZZZZ	5		
12:20	MP33487-MB1	1		
12:24	MP33487-B1	1		
12:28	FA52509-1F	1		(sample used for QC only; not part of login FA52495)
12:33	MP33487-D1	1		
12:38	MP33487-SD1	5		
12:42	MP33487-PS1	1		
12:47	MP33487-S1	1		
12:51	MP33487-S2	1		
12:56	ZZZZZZ	1		
13:00	MA14768-CCV3	1		
13:04	MA14768-CCB3	1		
13:09	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:18	FA52495-1	1		
13:22	FA52495-2	1		
13:27	FA52495-3	1		
---------->	Last reportable sample/prep for job FA52495			
13:31	ZZZZZZ	1		
13:36	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:40	ZZZZZZ	1		
13:45	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:54	MA14768-CCV4	1		
13:58	MA14768-CCB4	1		
14:23	MA14768-CCV5	1		
14:32	MA14768-CCB5	1		
14:35	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:49	ZZZZZZ	1		
14:53	ZZZZZZ	1		
14:58	ZZZZZZ	1		
15:03	ZZZZZZ	1		
15:07	MP33488-MB1	1		
15:12	MP33488-B1	1		
15:16	FA52509-1	1		(sample used for QC only; not part of login FA52495)
15:21	MA14768-CCV6	1		
15:25	MA14768-CCB6	1		
15:29	MP33488-D1	1		
15:34	MP33488-SD1	5		
15:39	MP33488-PS1	1		
15:43	MP33488-S1	1		
15:48	MP33488-S2	1		
15:52	ZZZZZZ	1		
15:57	ZZZZZZ	1		
16:02	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:15	MA14768-CCV7	1		
16:19	MA14768-CCB7	1		
16:24	ZZZZZZ	1		
16:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:46	ZZZZZZ	1		
16:51	ZZZZZZ	1		
16:55	ZZZZZZ	1		
17:00	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:09	MA14768-CCV8	1		
17:13	MA14768-CCB8	1		
17:17	ZZZZZZ	1		
17:22	ZZZZZZ	1		
17:26	ZZZZZZ	1		
17:31	ZZZZZZ	1		
18:01	MA14768-CCV9	1		
18:06	MA14768-CCB9	1		
18:41	MP33489-MB1	1		
18:45	MP33489-B1	1		
18:50	FA52389-1	1		(sample used for QC only; not part of login FA52495)
18:54	MA14768-CCV10	1		
18:58	MA14768-CCB10	1		
19:03	MP33489-D1	1		
19:08	MP33489-SD1	5		
19:12	MP33489-S1	1		
19:16	MP33489-S2	1		
19:21	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:30	ZZZZZZ	1		
19:35	MP33489-MB2	1		
19:39	MP33489-B2	1		
19:43	MP33489-MB3	1		
19:48	MA14768-CCV11	1		
19:52	MA14768-CCB11	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:56	MP33489-B3	1		
20:01	MP33490-MB1	1		
20:05	MP33490-B1	1		
20:10	FA52629-3	5		(sample used for QC only; not part of login FA52495)
20:14	MP33490-D1	5		
20:18	MP33490-SD1	25		
20:23	MP33490-PS1	5		
20:27	MP33490-S1	5		
20:31	MP33490-S2	5		
20:35	ZZZZZZ	5		
20:40	MA14768-CCV12	1		
20:44	MA14768-CCB12	1		
20:48	ZZZZZZ	5		
20:53	ZZZZZZ	5		
20:57	ZZZZZZ	5		
21:01	MA14768-CRIA2	1		
21:06	MA14768-ICSA2	1		
21:11	MA14768-ICSAB2	1		
21:15	MA14768-CCV13	1		
21:19	MA14768-CCB13	1		

----------> Last reportable CCB for job FA52495
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:01	MA14768-STD1	4917	35339	5623	1898
10:05	MA14768-STD2	4852	34989	5601	1841
10:08	MA14768-STD3	4719	34186	5482	1740
10:11	MA14768-STD4	4528	33471	5474	1626
10:15	MA14768-HSTD1	4526	33192	5434	1622
10:28	MA14768-ICV1	4534	32955	5367	1694
10:35	MA14768-ICB1	4816 R	34846 R	5690 R	1883 R
10:47	MA14768-CRIA1	4758	34201	5607	1869
10:54	MA14768-ICSA1	4232	30449	5270	1578
11:01	MA14768-ICSAB1	4184	30366	5249	1543
11:08	MA14768-CCV1	4570	33461	5544	1721
11:15	MA14768-CCB1	4760	34478	5748	1877
11:42	MA14768-CCV2	4503	33018	5555	1714
11:48	MA14768-CCB2	4726	34256	5714	1881
12:15	ZZZZZZ	4619	34057	5702	1850
12:20	MP33487-MB1	4492	33038	5524	1798
12:24	MP33487-B1	4471	32917	5571	1750
12:28	FA52509-1F	4181	29819	5371	1609
12:33	MP33487-D1	4215	29856	5411	1627
12:38	MP33487-SD1	4559	32919	5717	1815
12:42	MP33487-PS1	4205	30014	5464	1620
12:47	MP33487-S1	4241	30800	5521	1605
12:51	MP33487-S2	4193	30259	5461	1590
12:56	ZZZZZZ	4344	31344	5603	1708
13:00	MA14768-CCV3	4538	33737	5792	1763
13:04	MA14768-CCB3	4718	34955	5942	1929
13:09	ZZZZZZ	4509	33509	5793	1847
13:13	ZZZZZZ	4349	32370	5593	1778
13:18	FA52495-1	4336	32075	5578	1757
13:22	FA52495-2	4051	28608	5417	1566
13:27	FA52495-3	4250	30994	5568	1682
13:31	ZZZZZZ	4217	30169	5481	1671
13:36	ZZZZZZ	4338	32238	5678	1682

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:40	ZZZZZZ	4266	31726	5587	1733
13:45	ZZZZZZ	4310	31358	5605	1746
13:49	ZZZZZZ	4372	32050	5610	1778
13:54	MA14768-CCV4	4493	33528	5798	1764
13:58	MA14768-CCB4	4686	34594	5938	1929
14:23	MA14768-CCV5	4526	33447	5740	1762
14:32	MA14768-CCB5	4689	34308	5850	1915
14:35	ZZZZZZ	4429	32319	5609	1766
14:40	ZZZZZZ	4404	31406	5602	1721
14:44	ZZZZZZ	4158	28975	5483	1568
14:49	ZZZZZZ	4480	32746	5674	1790
14:53	ZZZZZZ	4219	29527	5511	1602
14:58	ZZZZZZ	4368	31188	5639	1718
15:03	ZZZZZZ	4343	31889	5564	1728
15:07	MP33488-MB1	4616	34214	5826	1878
15:12	MP33488-B1	4500	33446	5688	1799
15:16	FA52509-1	4262	30677	5527	1642
15:21	MA14768-CCV6	4499	33531	5634	1733
15:25	MA14768-CCB6	4710	34627	5871	1901
15:29	MP33488-D1	4295	30779	5543	1647
15:34	MP33488-SD1	4540	32867	5704	1803
15:39	MP33488-PS1	4301	30933	5593	1642
15:43	MP33488-S1	4261	30743	5461	1602
15:48	MP33488-S2	4287	30912	5495	1612
15:52	ZZZZZZ	3925	27437	5328	1437
15:57	ZZZZZZ	4352	31225	5536	1665
16:02	ZZZZZZ	3947	27283	5198	1431
16:06	ZZZZZZ	4496	32866	5524	1788
16:11	ZZZZZZ	4504	33277	5666	1753
16:15	MA14768-CCV7	4622	33965	5815	1789
16:19	MA14768-CCB7	4784	34948	5881	1931
16:24	ZZZZZZ	4410	32417	5513	1742
16:28	ZZZZZZ	4440	32524	5476	1760

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:33	ZZZZZZ	4427	32378	5560	1756
16:37	ZZZZZZ	4345	32917	5672	1779
16:42	ZZZZZZ	4580	33780	5732	1864
16:46	ZZZZZZ	4630	34087	5640	1848
16:51	ZZZZZZ	4624	34073	5701	1839
16:55	ZZZZZZ	4365	31927	5445	1733
17:00	ZZZZZZ	4618	34048	5687	1861
17:04	ZZZZZZ	4592	33631	5699	1867
17:09	MA14768-CCV8	4612	33976	5702	1771
17:13	MA14768-CCB8	4807	35302	5856	1936
17:17	ZZZZZZ	4489	33120	5606	1787
17:22	ZZZZZZ	4466	32716	5548	1781
17:26	ZZZZZZ	4583	33800	5717	1862
17:31	ZZZZZZ	4576	33561	5645	1836
18:01	MA14768-CCV9	4594	34009	5742	1773
18:06	MA14768-CCB9	4834	35304	5871	1947
18:41	MP33489-MB1	4762	34979	5733	1908
18:45	MP33489-B1	4703	34266	5595	1835
18:50	FA52389-1	4553	33331	5565	1794
18:54	MA14768-CCV10	4702	34544	5699	1801
18:58	MA14768-CCB10	4916	35822	5863	1957
19:03	MP33489-D1	4572	33262	5487	1783
19:08	MP33489-SD1	4817	35065	5711	1923
19:12	MP33489-S1	4512	32989	5481	1718
19:16	MP33489-S2	4580	33269	5462	1723
19:21	ZZZZZZ	4691	33945	5596	1803
19:25	ZZZZZZ	4757	35171	5907	1854
19:30	ZZZZZZ	4721	34334	5693	1847
19:35	MP33489-MB2	4838	35422	5680	1939
19:39	MP33489-B2	4792	34763	5586	1855
19:43	MP33489-MB3	4755	34399	5634	1875
19:48	MA14768-CCV11	4744	34939	5670	1800
19:52	MA14768-CCB11	4929	35937	5845	1972

INTERNAL STANDARD SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
Analyst: LM Run ID: MA14768
Parameters: As,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:56	MP33489-B3	4711	33984	5567	1802
20:01	MP33490-MB1	4805	35378	5652	1909
20:05	MP33490-B1	4707	34488	5572	1831
20:10	FA52629-3	5163	37459	6026	1916
20:14	MP33490-D1	5123	37288	6048	1899
20:18	MP33490-SD1	5014	36125	5739	1952
20:23	MP33490-PS1	5103	37021	5937	1873
20:27	MP33490-S1	5118	37066	6003	1856
20:31	MP33490-S2	5126	37016	5971	1849
20:35	ZZZZZZ	5115	37053	6020	1831
20:40	MA14768-CCV12	4695	34331	5502	1771
20:44	MA14768-CCB12	4891	35297	5630	1935
20:48	ZZZZZZ	5147	37192	6019	1854
20:53	ZZZZZZ	5008	36007	5796	1864
20:57	ZZZZZZ	4968	36299	5870	1812
21:01	MA14768-CRIA2	4835	35008	5625	1918
21:06	MA14768-ICSA2	4348	31216	5209	1610
21:11	MA14768-ICSAB2	4270	30688	5149	1565
21:15	MA14768-CCV13	4646	33860	5476	1754
21:19	MA14768-CCB13	4851	35120	5655	1926

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14768 Units: ug/l

Time: / Sample ID:			10:35 ICB1		11:15 CCB1		11:48 CCB2		13:04 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	6.0	1	anr							
Arsenic	10	1.3	-0.20	<10	0.60	<10	-0.10	<10	-0.30	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17								
Lead	5.0	1	0.30	<5.0	0.50	<5.0	0.30	<5.0	0.40	<5.0
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14768 Units: ug/l

Time: / Sample ID:			13:58 CCB4		14:32 CCB5		15:25 CCB6		16:19 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	6.0	1	anr							
Arsenic	10	1.3	0.50	<10	-0.10	<10	0.10	<10	-0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17								
Lead	5.0	1	0.40	<5.0	0.40	<5.0	0.30	<5.0	-0.30	<5.0
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14768 Units: ug/l

Time: / Sample ID:			17:13 CCB8		18:06 CCB9		18:58 CCB10		19:52 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	6.0	1	anr							
Arsenic	10	1.3	0.20	<10	0.40	<10	-0.10	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	17								
Lead	5.0	1	-0.90	<5.0	-0.30	<5.0	0.20	<5.0	-0.10	<5.0
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA14768 Units: ug/l

			20:44		21:19	
Time:						
Sample ID:			CCB12		CCB13	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	14				
Antimony	6.0	1	anr			
Arsenic	10	1.3	0.90	<10	0.20	<10
Barium	200	1	anr			
Beryllium	4.0	.2	anr			
Cadmium	5.0	.2	anr			
Calcium	1000	50				
Chromium	10	1	anr			
Cobalt	50	.2	anr			
Copper	25	1	anr			
Iron	300	17				
Lead	5.0	1	-0.10	<5.0	0.10	<5.0
Magnesium	5000	35				
Manganese	15	.5				
Molybdenum	50	.3	anr			
Nickel	40	.4	anr			
Potassium	10000	200				
Selenium	10	2.4	anr			
Silver	10	.7	anr			
Sodium	10000	500				
Strontium	10	.5				
Thallium	10	1.1	anr			
Tin	50	.9				
Titanium	10	.5				
Vanadium	50	.5	anr			
Zinc	20	3	anr			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14768 Units: ug/l

Time:		10:28			11:08			11:42	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2060	103.0	2000	2120	106.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	2020	101.0	2000	2010	100.5	2000	2050	102.5
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14768 Units: ug/l

Time:		13:00			13:54			14:23	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2000	2110	105.5	2000	2150	107.5	2000	2000	100.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	2000	100.0	2000	2010	100.5	2000	1980	99.0
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14768 Units: ug/l

Time:		15:21			16:15			17:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2000	2000	100.0	2000	1960	98.0	2000	1950	97.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	2000	100.0	2000	1950	97.5	2000	1960	98.0
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14768 Units: ug/l

Time:		18:01			18:54			19:48	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	2000	2000	100.0	2000	1940	97.0	2000	1920	96.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	2000	100.0	2000	1950	97.5	2000	1940	97.0
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA14768 Units: ug/l

Time:		20:40			21:15	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	2000	1910	95.5	2000	1940	97.0
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	2000	1950	97.5	2000	1980	99.0
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA14768 Units: ug/l

Time:		10:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum			
Antimony	anr		
Arsenic	4000	4030	100.8
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron			
Lead	4000	4050	101.3
Magnesium			
Manganese			
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA14768 Units: ug/l

Time:			10:47		21:01	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200				
Antimony	10	5.0	anr			
Arsenic	20	10	9.2	92.0	9.0	90.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	anr			
Iron	600	300				
Lead	10	5.0	4.4	88.0	4.5	90.0
Magnesium	10000	5000				
Manganese	30	15				
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000				
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

File ID: SA032318M1.ICP Date Analyzed: 03/23/18 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA14768 Units: ug/l

Time:			10:54		11:01		21:06		21:11	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	516000	103.2	506000	101.2	521000	104.2	525000	105.0
Antimony		1000	0.0		1030	103.0	0.90		956	95.6
Arsenic		1000	0.0		1090	109.0	1.4		1020	102.0
Barium		500	-0.10		520	104.0	0.40		556	111.2
Beryllium		500	-0.10		513	102.6	-0.10		487	97.4
Cadmium		1000	0.0		1010	101.0	-0.20		951	95.1
Calcium	500000	500000	462000	92.4	455000	91.0	496000	99.2	489000	97.8
Chromium		500	0.50		510	102.0	-0.10		491	98.2
Cobalt		500	0.20		508	101.6	0.20		498	99.6
Copper		500	0.0		547	109.4	-1.9		555	111.0
Iron	200000	200000	186000	93.0	183000	91.5	176000	88.0	176000	88.0
Lead		1000	-0.80		1010	101.0	-5.9		977	97.7
Magnesium	500000	500000	508000	101.6	490000	98.0	520000	104.0	511000	102.2
Manganese		500	0.90		535	107.0	0.90		494	98.8
Molybdenum		1000	-0.30		896	89.6	0.10		882	88.2
Nickel		1000	-1.0		990	99.0	-2.5		1020	102.0
Potassium			7.6		27.3		180		192	
Selenium		1000	0.0		971	97.1	-0.70		933	93.3
Silver		1000	0.10		1120	112.0	0.30		1140	114.0
Sodium			155		173		179		183	
Strontium		1000	-0.20		948	94.8	-0.60		1020	102.0
Thallium		1000	0.0		943	94.3	-1.0		910	91.0
Tin		1000	-0.40		938	93.8	0.10		943	94.3
Titanium		1000	-1.8		986	98.6	-0.20		911	91.1
Vanadium		500	0.10		502	100.4	0.0		454	90.8
Zinc		1000	1.5		963	96.3	1.8		983	98.3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3	-0.10	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1	0.10	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/18 03/21/18

Metal	FA52403-2 Original	DUP	RPD	QC Limits	FA52403-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	anr								
Arsenic	4.5	3.8	16.9	0-20	4.5	2150	2000	107.3	80-120
Barium									
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	3.2	3.1	3.2	0-20	3.2	506	500	100.6	80-120
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/21/18

Metal	FA52403-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	4.5	2130	2000	106.3	0.9	20
Barium						
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	3.2	507	500	100.8	0.2	20
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	2000	2000	100.0	80-120
Barium				
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	492	500	98.4	80-120
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/21/18

Metal	FA52403-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	4.50	0.00	100.0(a)	0-10
Barium				
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	3.20	0.00	100.0(a)	0-10
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33476
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/21/18

Metal	Sample ml	Final ml	FA52403-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	4.5	4.41	112.1	0.2	5	100	107.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	3.2	3.136	49	0.2	2.5	50	91.7	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33476: FA52495-1F, FA52495-2F, FA52495-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/23/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3	-1.5	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1	0.40	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			03/23/18					03/23/18	
Metal	FA52509-1F Original	DUP	RPD	QC Limits	FA52509-1F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	2160	2000	108.0	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	1.8	2.0	10.5	0-20	1.8	492	500	98.0	80-120
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/23/18

Metal	FA52509-1F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.0	2190	2000	109.5	1.4	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	1.8	497	500	99.0	1.0	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/23/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	2100	2000	105.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	500	500	100.0	80-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/23/18

Metal	FA52509-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	1.80	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA52495
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33487
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/23/18

Metal	Sample ml	Final ml	FA52509-1F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10			110.4	0.2	5	100	110.4	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	1.8	1.764	47.1	0.2	2.5	50	90.7	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33487: FA52495-1, FA52495-2, FA52495-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE1 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA14768

Instrument Detection Limits

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA14760

Instrument Linear Ranges

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE1 **Effective Date:** 08/13/13

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Sulfur	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA14768

Instrument Linear Ranges

Job Number: FA52495
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA14760

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52496

Sampling Date: 03/14/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52496

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52496-1	03/14/18	09:50	RW	03/16/18	AQ	Ground Water	MW-32B (031418)
FA52496-2	03/14/18	11:20	RW	03/16/18	AQ	Ground Water	MW-32A (031418)
FA52496-2F	03/14/18	11:20	RW	03/16/18	AQ	Groundwater Filtered	MW-32A (031418)
FA52496-3	03/14/18	10:30	RW	03/16/18	AQ	Ground Water	MW-32C (031418)
FA52496-3F	03/14/18	10:30	RW	03/16/18	AQ	Groundwater Filtered	MW-32C (031418)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52496

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 12:56:05

3 Sample(s) were collected on 03/14/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52496. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4393

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52495-3MS, FA52495-3MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52496-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52496-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52496-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52496-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52496-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52496-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52496-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52496-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52496-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52496-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52496-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52496-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33475

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52463-7FDUP, FA52463-7FMS, FA52463-7FMSD, FA52463-7FPS, FA52463-7FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33475-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52496
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/14/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52496-1	**MW-32B (031418)**					
Acenaphthene		0.0025	0.0013		mg/l	SW846 8270D BY SIM
Fluorene		0.0017	0.0013		mg/l	SW846 8270D BY SIM
Naphthalene		0.0128	0.0013		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0026	0.0013		mg/l	SW846 8270D BY SIM
FA52496-2	**MW-32A (031418)**					
Acenaphthene		0.0168	0.0010		mg/l	SW846 8270D BY SIM
Naphthalene		0.0055	0.0010		mg/l	SW846 8270D BY SIM
Arsenic		0.0199	0.010		mg/l	SW846 6010C
Lead		0.0136	0.0050		mg/l	SW846 6010C
FA52496-2F	**MW-32A (031418)**					
No hits reported in this sample.						
FA52496-3	**MW-32C (031418)**					
Acenaphthene		0.0037	0.00096		mg/l	SW846 8270D BY SIM
Naphthalene		0.0061	0.00096		mg/l	SW846 8270D BY SIM
FA52496-3F	**MW-32C (031418)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-32B (031418)
Lab Sample ID: FA52496-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101929.D	1	03/21/18 14:39	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32B (031418)
Lab Sample ID: FA52496-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059393.D	1	03/21/18 21:42	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0063	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0063	mg/l	
95-48-7	2-Methylphenol	ND	0.0063	mg/l	
	3&4-Methylphenol	ND	0.0063	mg/l	
108-95-2	Phenol	ND	0.0063	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0063	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0063	mg/l	
86-74-8	Carbazole	ND	0.0063	mg/l	
132-64-9	Dibenzofuran	ND	0.0063	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0063	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	94%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32B (031418)
Lab Sample ID: FA52496-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3625.D	1	03/26/18 14:26	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0013	mg/l	
83-32-9	Acenaphthene	0.0025	0.0013	mg/l	
208-96-8	Acenaphthylene	ND	0.0013	mg/l	
120-12-7	Anthracene	ND	0.0013	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00025	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00025	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00025	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00025	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00025	mg/l	
218-01-9	Chrysene	ND	0.00025	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00025	mg/l	
206-44-0	Fluoranthene	ND	0.0013	mg/l	
86-73-7	Fluorene	0.0017	0.0013	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00025	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0013	mg/l	
91-20-3	Naphthalene	0.0128	0.0013	mg/l	
85-01-8	Phenanthrene	0.0026	0.0013	mg/l	
129-00-0	Pyrene	ND	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	50% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32B (031418)		
Lab Sample ID:	FA52496-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (031418)		
Lab Sample ID:	FA52496-2	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101930.D	1	03/21/18 15:07	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32A (031418)
Lab Sample ID: FA52496-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059394.D	1	03/21/18 22:07	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0063	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0063	mg/l	
95-48-7	2-Methylphenol	ND	0.0063	mg/l	
	3&4-Methylphenol	ND	0.0063	mg/l	
108-95-2	Phenol	ND	0.0063	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0063	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0063	mg/l	
86-74-8	Carbazole	ND	0.0063	mg/l	
132-64-9	Dibenzofuran	ND	0.0063	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0063	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-67%
4165-62-2	Phenol-d5	23%		10-50%
118-79-6	2,4,6-Tribromophenol	92%		33-118%
4165-60-0	Nitrobenzene-d5	77%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	42%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32A (031418)
Lab Sample ID: FA52496-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01790.D	1	03/27/18 21:31	FS	03/21/18 09:00	OP69268	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0010	mg/l	
83-32-9	Acenaphthene	0.0168	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	0.0055	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96% [a]		33-118%
4165-60-0	Nitrobenzene-d5	84% [a]		42-108%
321-60-8	2-Fluorobiphenyl	79% [a]		40-106%
1718-51-0	Terphenyl-d14	42% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32A (031418)		
Lab Sample ID:	FA52496-2	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0199	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0136	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32A (031418)		
Lab Sample ID:	FA52496-2F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (031418)		
Lab Sample ID:	FA52496-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101931.D	1	03/21/18 15:37	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32C (031418)
Lab Sample ID: FA52496-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059395.D	1	03/21/18 22:32	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	79%		42-108%
321-60-8	2-Fluorobiphenyl	83%		40-106%
1718-51-0	Terphenyl-d14	45%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-32C (031418)
Lab Sample ID: FA52496-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01791.D	1	03/27/18 21:54	FS	03/21/18 09:00	OP69268	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0037	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0061	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	102% [a]		33-118%
4165-60-0	Nitrobenzene-d5	90% [a]		42-108%
321-60-8	2-Fluorobiphenyl	84% [a]		40-106%
1718-51-0	Terphenyl-d14	48% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-32C (031418)		
Lab Sample ID:	FA52496-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-32C (031418)		
Lab Sample ID:	FA52496-3F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # 1 of 1 FA52496

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94/5879
CSXT Project Name: IN Creosote
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: RandallWoodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6515

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (Site Specific)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
TB-1 (031418)	1	3/14/18											
MW-32B (031418)	6	3/14/18	950	RJW	N	Grab		X	X	X			1
MW-32A (031418)	7	3/14/18	1120	RJW	N	Grab		X	X	X	X		2
MW-32C (031418)	7	3/14/18	1030	RJW	N	Grab		X	X	X	X		3

Relinquished By: Riley White / Arcadis	Date Time: 3/14/18 1700	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: - See table for site COCs - Dissolved metal filter + preserve (2 x Amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time: 03/16/18 930	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

6.0

5.1 5

FA52496: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		**Industrial**	**Residential**	
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexy)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52496: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52496 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762260003281100780071448667

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (5.6);

Cooler Temps (Corrected) °C: Cooler 1: (6.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments TB NOT REC'D. SAMPLE #1 AND 2 REC'D LAB FILTER AMBER BROKEN AND ONE EXTRACTION AMBER BROKEN. SPLIT SAMPLE FROM AMBER BOTTLE FOR LAB FILTERED METAL.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52497

Sampling Date: 03/14/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **23**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52497

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52497-1	03/14/18	14:20	RW	03/16/18	AQ	Ground Water	MW-42B (031418)
FA52497-1F	03/14/18	14:20	RW	03/16/18	AQ	Groundwater Filtered	MW-42B (031418)
FA52497-2	03/14/18	13:35	RW	03/16/18	AQ	Ground Water	MW-42A (031418)
FA52497-2F	03/14/18	13:35	RW	03/16/18	AQ	Groundwater Filtered	MW-42A (031418)
FA52497-3	03/14/18	12:50	RW	03/16/18	AQ	Ground Water	MW-39B (031418)
FA52497-3F	03/14/18	12:50	RW	03/16/18	AQ	Groundwater Filtered	MW-39B (031418)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52497

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:46:54

3 Sample(s) were collected on 03/14/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52497. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4393

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52495-3MS, FA52495-3MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52497-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52497-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52497-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52497-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52497-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52497-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52497-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52497-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33475

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52463-7FDUP, FA52463-7FMS, FA52463-7FMSD, FA52463-7FPS, FA52463-7FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33475-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52497
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/14/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52497-1	**MW-42B (031418)**					
No hits reported in this sample.						
FA52497-2	**MW-42A (031418)**					
Naphthalene		0.0026	0.0013		mg/l	SW846 8270D BY SIM
FA52497-2F	**MW-42A (031418)**					
No hits reported in this sample.						
FA52497-3	**MW-39B (031418)**					
Benzo(a)pyrene		0.00029	0.00025		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00053	0.00025		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00033	0.00025		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00031	0.00025		mg/l	SW846 8270D BY SIM
Chrysene		0.00026	0.00025		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00042	0.00025		mg/l	SW846 8270D BY SIM
Naphthalene		0.0045	0.0013		mg/l	SW846 8270D BY SIM
FA52497-3F	**MW-39B (031418)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-42B (031418)		
Lab Sample ID:	FA52497-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101932.D	1	03/21/18 16:23	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42B (031418)		
Lab Sample ID:	FA52497-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-42A (031418)
Lab Sample ID: FA52497-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101933.D	1	03/21/18 16:51	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A (031418)
Lab Sample ID: FA52497-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059396.D	1	03/21/18 22:57	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	750 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0067	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0067	mg/l	
95-48-7	2-Methylphenol	ND	0.0067	mg/l	
	3&4-Methylphenol	ND	0.0067	mg/l	
108-95-2	Phenol	ND	0.0067	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0067	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0067	mg/l	
86-74-8	Carbazole	ND	0.0067	mg/l	
132-64-9	Dibenzofuran	ND	0.0067	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0067	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	78%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	51%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-42A (031418)
Lab Sample ID: FA52497-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3628.D	1	03/26/18 16:05	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	750 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0013	mg/l	
83-32-9	Acenaphthene	ND	0.0013	mg/l	
208-96-8	Acenaphthylene	ND	0.0013	mg/l	
120-12-7	Anthracene	ND	0.0013	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00027	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00027	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00027	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00027	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00027	mg/l	
218-01-9	Chrysene	ND	0.00027	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00027	mg/l	
206-44-0	Fluoranthene	ND	0.0013	mg/l	
86-73-7	Fluorene	ND	0.0013	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00027	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0013	mg/l	
91-20-3	Naphthalene	0.0026	0.0013	mg/l	
85-01-8	Phenanthrene	ND	0.0013	mg/l	
129-00-0	Pyrene	ND	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	53% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	45% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-42A (031418)		
Lab Sample ID:	FA52497-2	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-42A (031418)		
Lab Sample ID:	FA52497-2F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (031418)		
Lab Sample ID:	FA52497-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101934.D	1	03/21/18 17:21	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-39B (031418)
Lab Sample ID: FA52497-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059397.D	1	03/21/18 23:22	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0063	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0063	mg/l	
95-48-7	2-Methylphenol	ND	0.0063	mg/l	
	3&4-Methylphenol	ND	0.0063	mg/l	
108-95-2	Phenol	ND	0.0063	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0063	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0063	mg/l	
86-74-8	Carbazole	ND	0.0063	mg/l	
132-64-9	Dibenzofuran	ND	0.0063	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0063	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	76%		40-106%
1718-51-0	Terphenyl-d14	59%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (031418)
Lab Sample ID:	FA52497-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/14/18
Date Received:	03/16/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3629.D	1	03/26/18 16:37	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0013	mg/l	
83-32-9	Acenaphthene	ND	0.0013	mg/l	
208-96-8	Acenaphthylene	ND	0.0013	mg/l	
120-12-7	Anthracene	ND	0.0013	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00025	mg/l	
50-32-8	Benzo(a)pyrene	0.00029	0.00025	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00053	0.00025	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00033	0.00025	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00031	0.00025	mg/l	
218-01-9	Chrysene	0.00026	0.00025	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00025	mg/l	
206-44-0	Fluoranthene	ND	0.0013	mg/l	
86-73-7	Fluorene	ND	0.0013	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00042	0.00025	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0013	mg/l	
91-20-3	Naphthalene	0.0045	0.0013	mg/l	
85-01-8	Phenanthrene	ND	0.0013	mg/l	
129-00-0	Pyrene	ND	0.0013	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	40% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-39B (031418)		
Lab Sample ID:	FA52497-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-39B (031418)		
Lab Sample ID:	FA52497-3F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52497

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6511

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (SIM only)	Total metals 6010 (As, Pb)	Dissolved Metals 6010	COMMENTS	LAB USE
TB-1 (031418)	1	3/14/18	—										
MW-42B (031418)	7	3/14/18	1420	RJW	N	Grab		X	X	X	X		1
[redacted]-42A (031418)	7	3/14/18	1335	RJW	N	Grab		X	X	X	X		2
[redacted]W-39B (031418)	7	3/14/18	1250	RJW	N	Grab		X	X	X	X		3

Relinquished By: Arcadis	Date Time: 3/14/18 1710	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See Table for Site COCs -Dissolved metal filter + preserve (1L amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory	Date Time: 03/16/18 930	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

8.0

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52497: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52497 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826062260003281100780071448689

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (7.6);

Cooler Temps (Corrected) °C: Cooler 1: (8.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☐		☑
4. Cooler temp verification	IR Gun		
5. Cooler media	No Ice		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☐		☑	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #1 LAB FILTER METAL BOTTLE AND EXTRACTION AMBERS REC'D BROKEN. SAMPLE #2 LAB FILTER AMBER REC'D BROKEN. SPLIT EXTRACRION AMBER FOR LAB FILTER METALS. SAMPLE # 3 REC'D LAB FILTER AMBER BROKEN AND 1- EXTRACTION AMBER BROKEN. REC'D OUT OF TEMP.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52498

Sampling Date: 03/14/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 24

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52498

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52498-1	03/14/18	10:05	CS	03/16/18	AQ	Ground Water	MW-28C (031418)
FA52498-1F	03/14/18	10:05	CS	03/16/18	AQ	Groundwater Filtered	MW-28C (031418)
FA52498-2	03/14/18	10:55	CS	03/16/18	AQ	Ground Water	MW-28A (031418)
FA52498-2F	03/14/18	10:55	CS	03/16/18	AQ	Groundwater Filtered	MW-28A (031418)
FA52498-3	03/14/18	11:50	CS	03/16/18	AQ	Ground Water	MW-28B (031418)
FA52498-3F	03/14/18	11:50	CS	03/16/18	AQ	Groundwater Filtered	MW-28B (031418)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52498

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/2/2018 1:12:19 PM

3 Sample(s) were collected on 03/14/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 8.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52498. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4393

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52495-3MS, FA52495-3MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52498-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52498-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52498-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52498-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52498-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52498-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52498-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52498-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52498-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52498-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52498-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52498-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33475

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52463-7FDUP, FA52463-7FMS, FA52463-7FMSD, FA52463-7FPS, FA52463-7FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33475-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52498
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/14/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52498-1	**MW-28C (031418)**					
Naphthalene		0.0020	0.00095		mg/l	SW846 8270D BY SIM
FA52498-2	**MW-28A (031418)**					
No hits reported in this sample.						
FA52498-2F	**MW-28A (031418)**					
No hits reported in this sample.						
FA52498-3	**MW-28B (031418)**					
Benzene		0.0647	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0485	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0483	0.015		mg/l	SW846 8260B
Carbazole		0.0440	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0133	0.0048		mg/l	SW846 8270D
Acenaphthene		0.121	0.0050		mg/l	SW846 8270D BY SIM
Fluorene		0.0323	0.0050		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0431	0.0050		mg/l	SW846 8270D BY SIM
Naphthalene		0.132	0.0050		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0123	0.0050		mg/l	SW846 8270D BY SIM
FA52498-3F	**MW-28B (031418)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-28C (031418)
Lab Sample ID: FA52498-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101941.D	1	03/21/18 21:00	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28C (031418)
Lab Sample ID: FA52498-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059398.D	1	03/21/18 23:47	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	700 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0071	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0071	mg/l	
95-48-7	2-Methylphenol	ND	0.0071	mg/l	
	3&4-Methylphenol	ND	0.0071	mg/l	
108-95-2	Phenol	ND	0.0071	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0071	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0071	mg/l	
86-74-8	Carbazole	ND	0.0071	mg/l	
132-64-9	Dibenzofuran	ND	0.0071	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0071	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	64%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28C (031418)
Lab Sample ID: FA52498-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01860.D	1	03/30/18 13:37	FS	03/21/18 09:00	OP69268	S7G83
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0020	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	82% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28C (031418)		
Lab Sample ID:	FA52498-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-28A (031418)
Lab Sample ID: FA52498-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101942.D	1	03/21/18 21:28	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28A (031418)
Lab Sample ID: FA52498-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059399.D	1	03/22/18 00:12	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	22%		10-50%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28A (031418)
Lab Sample ID: FA52498-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3630.D	1	03/26/18 17:10	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	700 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0014	mg/l	
83-32-9	Acenaphthene	ND	0.0014	mg/l	
208-96-8	Acenaphthylene	ND	0.0014	mg/l	
120-12-7	Anthracene	ND	0.0014	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00029	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00029	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00029	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00029	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00029	mg/l	
218-01-9	Chrysene	ND	0.00029	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00029	mg/l	
206-44-0	Fluoranthene	ND	0.0014	mg/l	
86-73-7	Fluorene	ND	0.0014	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00029	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0014	mg/l	
91-20-3	Naphthalene	ND	0.0014	mg/l	
85-01-8	Phenanthrene	ND	0.0014	mg/l	
129-00-0	Pyrene	ND	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	68% [a]		42-108%
321-60-8	2-Fluorobiphenyl	71% [a]		40-106%
1718-51-0	Terphenyl-d14	62% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28A (031418)		
Lab Sample ID:	FA52498-2	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28A (031418)		
Lab Sample ID:	FA52498-2F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-28B (031418)
Lab Sample ID: FA52498-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101943.D	1	03/21/18 21:57	JG	n/a	n/a	VM4393
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0647	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0485	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0483	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28B (031418)
Lab Sample ID: FA52498-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059427.D	1	03/22/18 11:37	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0440	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0133	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	55%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-28B (031418)
Lab Sample ID: FA52498-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3642.D	5	03/26/18 23:45	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0050	mg/l	
83-32-9	Acenaphthene	0.121	0.0050	mg/l	
208-96-8	Acenaphthylene	ND	0.0050	mg/l	
120-12-7	Anthracene	ND	0.0050	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0010	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0010	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0010	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0010	mg/l	
218-01-9	Chrysene	ND	0.0010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0010	mg/l	
206-44-0	Fluoranthene	ND	0.0050	mg/l	
86-73-7	Fluorene	0.0323	0.0050	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0010	mg/l	
91-57-6	2-Methylnaphthalene	0.0431	0.0050	mg/l	
91-20-3	Naphthalene	0.132	0.0050	mg/l	
85-01-8	Phenanthrene	0.0123	0.0050	mg/l	
129-00-0	Pyrene	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78% [a]		33-118%
4165-60-0	Nitrobenzene-d5	77% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	50% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28B (031418)		
Lab Sample ID:	FA52498-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-28B (031418)		
Lab Sample ID:	FA52498-3F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52498

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582Q
CSXT Project Name: IN CREOSOTE
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St, Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [ ] Other Deliv: _____
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (Extended)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
MW-28C(031418) 1	7	3-14-18	1605	CS	N	Grab		X	X	X	X		
MW-28A(031418) 2	7	3-14-18	1095	CS	N	Grab		X	X	X	X		
MW-28B(031418) 3	7	3-14-18	1150	CS	N	Grab		X	X	X	X		
TB-1	1												

Relinquished By:	Date Time:	Received By:	Date Time:
		Fed Ex	
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time: 03/16/18 930	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- See table for site COCs
- Dissolved Metal filter & preserve (1L Amber)

Custody Seal # #
LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

8.0

5.1 5

FA52498: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52498 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826062260003281100780071448678

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (8.2);

Cooler Temps (Corrected) °C: Cooler 1: (8.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☐		☑
4. Cooler temp verification	IR Gun		
5. Cooler media	No Ice		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☐		☑	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☐		☑	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 1- EXTRACTION AMBER REC'D BROKEN FOR SAMPLE #1 AND 3. SAMPLE #2 REC'D BOTH EXTRACTION AMBERS BROKEN. SPLIT LAB FILTER METAL BOTTLE FOR EXTRACTION. SAMPLE #3 METALS BOTTLE READS MW-28A(031418). REC'D OUT OF TEMP.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52505

Sampling Date: 03/14/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: FA52505

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52505-1	03/14/18	16:50	RW	03/16/18	AQ	Ground Water	MW-31B (031418)
FA52505-1F	03/14/18	16:50	RW	03/16/18	AQ	Groundwater Filtered	MW-31B (031418)
FA52505-2	03/14/18	16:10	RW	03/16/18	AQ	Ground Water	MW-31C (031418)
FA52505-2F	03/14/18	16:10	RW	03/16/18	AQ	Groundwater Filtered	MW-31C (031418)
FA52505-3	03/14/18	15:35	RW	03/16/18	AQ	Ground Water	MW-31A (031418)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52505

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:45:43

3 Sample(s) were collected on 03/14/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 3.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52505. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52689-5MS, FA52689-5MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52505-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52505-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52505-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52505-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52505-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52505-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52505-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52505-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52505-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52505-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52505-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52505-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33475

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52463-7FDUP, FA52463-7FMS, FA52463-7FMSD, FA52463-7FPS, FA52463-7FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33475-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52505
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/14/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52505-1	**MW-31B (031418)**					
No hits reported in this sample.						
FA52505-1F	**MW-31B (031418)**					
No hits reported in this sample.						
FA52505-2	**MW-31C (031418)**					
Naphthalene		0.0050	0.00095		mg/l	SW846 8270D BY SIM
FA52505-2F	**MW-31C (031418)**					
No hits reported in this sample.						
FA52505-3	**MW-31A (031418)**					
Naphthalene		0.0027	0.00095		mg/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-31B (031418)		
Lab Sample ID:	FA52505-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51923.D	1	03/24/18 05:40	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (031418)
Lab Sample ID: FA52505-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059400.D	1	03/22/18 00:37	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	74%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	48%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31B (031418)
Lab Sample ID: FA52505-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3631.D	1	03/26/18 17:44	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	64% [a]		42-108%
321-60-8	2-Fluorobiphenyl	61% [a]		40-106%
1718-51-0	Terphenyl-d14	41% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31B (031418)		
Lab Sample ID:	FA52505-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31B (031418)		
Lab Sample ID:	FA52505-1F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (031418)
Lab Sample ID:	FA52505-2
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/14/18
Date Received:	03/16/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51924.D	1	03/24/18 06:00	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31C (031418)
Lab Sample ID: FA52505-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059401.D	1	03/22/18 01:02	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	84%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	62%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31C (031418)
Lab Sample ID: FA52505-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3632.D	1	03/26/18 18:17	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0050	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	43% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31C (031418)		
Lab Sample ID:	FA52505-2	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-31C (031418)		
Lab Sample ID:	FA52505-2F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/20/18	03/20/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14759
(2) Prep QC Batch: MP33475

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-31A (031418)
Lab Sample ID: FA52505-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51925.D	1	03/24/18 06:21	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31A (031418)
Lab Sample ID: FA52505-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059432.D	1	03/22/18 13:42	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	51%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-31A (031418)
Lab Sample ID: FA52505-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3633.D	1	03/26/18 18:50	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0027	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	59% [a]		40-106%
1718-51-0	Terphenyl-d14	45% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-31A (031418)		
Lab Sample ID:	FA52505-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52505

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94/5829
CSXT Project Name: IN Creosote
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days ____
- [x] Standard 14 Days
- [ ] Other ____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: ____
- [ ] EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	Site 8270 (SIM only)	Total metals 6010 (As, Pb)	Dissolved Metals 6010					COMMENTS	LAB USE
1	MW-31B(031418)	7	3/14/18	1650	RJW	N	Grab		X	X	X	X						
2	MW-31C (031418)	7	3/14/18	1610	RJW	N	Grab		X	X	X	X						
3	MW-31A (031418)	6	3/14/18	1535	RJW	N	Grab		X	X	X							
	TB-1(031418)	1	3/14/18															

Relinquished By: Ruby White/Arcadis	Date Time: 3/14/18 1720	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - See Table for site COCs - Dissolved metal filter + preserve (1L Ambers)
Relinquished By: FX	Date Time: 03-16-18	Received By: J. Cosne	Date Time: 09:30	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.8

5.1 5

FA52505: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	1
Ethylbenzene	X	204	10	1
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52505: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52505 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 7800 7144 8667

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 2 VOA vials received instead of 3,1 VIAL RECEIVED BROKEN FOR SAMPLE #3

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/16/2018 9:30:00 AM Reviewer: _____ Date: _____

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52507

Sampling Date: 03/15/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 27

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52507

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52507-1	03/15/18	16:10	CS	03/16/18	AQ	Ground Water	MW-53A (031518)
FA52507-1F	03/15/18	16:10	CS	03/16/18	AQ	Groundwater Filtered	MW-53A (031518)
FA52507-2	03/15/18	14:35	CS	03/16/18	AQ	Ground Water	MW-53B (031518)
FA52507-2F	03/15/18	14:35	CS	03/16/18	AQ	Groundwater Filtered	MW-53B (031518)
FA52507-3	03/15/18	00:00	CS	03/16/18	AQ	Ground Water	DUP-1 (031518)
FA52507-3F	03/15/18	00:00	CS	03/16/18	AQ	Groundwater Filtered	DUP-1 (031518)
FA52507-4	03/15/18	17:00	CS	03/16/18	AQ	Equipment Blank	EB-1 (031518)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52507

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/2/2018 1:10:01 PM

4 Sample(s) were collected on 03/15/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52507. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5850

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52609-8MS, FA52609-8MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** VO1946

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2MS, FA52403-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Toluene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

FA52507-1: Sample vial(s) contained significant headspace; reported results are considered minimum values.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

Sample(s) FA52507-2 have surrogates outside control limits.

FA52507-2: Confirmation run for surrogate recoveries.

FA52507-2 for Phenol-d5: Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52507-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52507-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52507-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52507-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52507-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52507-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52507-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52507-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

FA52507-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52507-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52507-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52507-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33476

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2DUP, FA52403-2MS, FA52403-2MSD, FA52403-2PS, FA52403-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33476-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1DUP, FA52509-1MS, FA52509-1MSD, FA52509-1PS, FA52509-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33488-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52507
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52507-1	**MW-53A (031518)**					
Naphthalene		0.0031	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0050	0.0050		mg/l	SW846 6010C
FA52507-1F	**MW-53A (031518)**					
No hits reported in this sample.						
FA52507-2	**MW-53B (031518)**					
Naphthalene		0.0059	0.00095		mg/l	SW846 8270D BY SIM
FA52507-2F	**MW-53B (031518)**					
No hits reported in this sample.						
FA52507-3	**DUP-1 (031518)**					
Naphthalene		0.0040	0.00096		mg/l	SW846 8270D BY SIM
FA52507-3F	**DUP-1 (031518)**					
No hits reported in this sample.						
FA52507-4	**EB-1 (031518)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-53A (031518)		
Lab Sample ID:	FA52507-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	O51806.D	1	03/22/18 12:05	SP	n/a	n/a	VO1946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	109%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (031518)
Lab Sample ID: FA52507-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059406.D	1	03/22/18 03:06	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	54%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53A (031518)
Lab Sample ID: FA52507-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3634.D	1	03/26/18 19:23	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0031	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	80% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	60% [a]		40-106%
1718-51-0	Terphenyl-d14	41% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53A (031518)		
Lab Sample ID:	FA52507-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53A (031518)		
Lab Sample ID:	FA52507-1F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-53B (031518)
Lab Sample ID: FA52507-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51807.D	1	03/22/18 12:25	SP	n/a	n/a	VO1946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (031518)		
Lab Sample ID:	FA52507-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059414.D	1	03/22/18 06:13	MV	03/21/18 09:00	OP69267	SX2484
Run #2 [a]	X059433.D	1	03/22/18 14:07	MV	03/21/18 09:00	OP69267	SX2484

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%	15%	14-67%
4165-62-2	Phenol-d5	9% [b]	9%	10-50%
118-79-6	2,4,6-Tribromophenol	76%	79%	33-118%
4165-60-0	Nitrobenzene-d5	62%	63%	42-108%
321-60-8	2-Fluorobiphenyl	66%	68%	40-106%
1718-51-0	Terphenyl-d14	53%	54%	39-121%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53B (031518)
Lab Sample ID: FA52507-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3635.D	1	03/26/18 19:55	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0059	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69% [a]		33-118%
4165-60-0	Nitrobenzene-d5	61% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	47% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (031518)		
Lab Sample ID:	FA52507-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-53B (031518)
Lab Sample ID: FA52507-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/15/18
Date Received: 03/16/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031518)		
Lab Sample ID:	FA52507-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51808.D	1	03/22/18 13:05	SP	n/a	n/a	VO1946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031518)
Lab Sample ID: FA52507-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059415.D	1	03/22/18 06:38	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	66%		40-106%
1718-51-0	Terphenyl-d14	47%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031518)
Lab Sample ID: FA52507-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3636.D	1	03/26/18 20:29	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0040	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	84% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	41% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1 (031518)		
Lab Sample ID:	FA52507-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031518)		
Lab Sample ID:	FA52507-3F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EB-1 (031518)		
Lab Sample ID:	FA52507-4	**Date Sampled:**	03/15/18
Matrix:	AQ - Equipment Blank	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990025.D	1	03/24/18 06:09	SP	n/a	n/a	VJ5850
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 52507
COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582 9
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN
Project #: IN000072-0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days
- ☒ Standard 14 Days
- ☐ Other

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: Data CD only
- ☐ EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (SIM)	Total Metals 6010	Dissolved Metals	COMMENTS	LAB USE
1	MW-53A (031518)	7	3-15-18	1610	CS	N	G		X	X	X	X		
2	MW-53B (031518)	7	3-15-18	1435	CS	N	G		X	X	X	X		
3	Dup-1 (031518)	7	3-15-18	—	CS	N	G		X	X	X	X		
	EB-1 (031518)	3	3-15-18	1700	CS	N	G		X					
	TB-1 (031518)	1	3-15-18											

	Date Time:	Received By:	Date Time:
Relinquished By:		FX	
Relinquished By: FX		J. Greene	03-16-18 09:30
Relinquished By:		Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
See Table for off site COCs. -Provide in Stand Alone Rep.
-Dissolved Metals - lab filter + preserve (1L Amber)

Custody Seal # | LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.6

Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibeznofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methlynaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52507: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52507 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 7800 9825 1984

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** N/A

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☐		☐
4. Cooler temp verification	N/A		
5. Cooler media	N/A		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑
	W	**or**	**S**	**N/A**
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/16/2018 9:30:00 AM Reviewer: AH Date: 4/2/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52508

Sampling Date: 03/15/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 26

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52508

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52508-1	03/15/18	10:10	RW	03/16/18	AQ	Ground Water	MW-22D (031518)
FA52508-2	03/15/18	11:40	RW	03/16/18	AQ	Ground Water	MW-20S (031518)
FA52508-2F	03/15/18	11:40	RW	03/16/18	AQ	Groundwater Filtered	MW-20S (031518)
FA52508-3	03/15/18	11:05	RW	03/16/18	AQ	Ground Water	MW-23D (031518)
FA52508-3F	03/15/18	11:05	RW	03/16/18	AQ	Groundwater Filtered	MW-23D (031518)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52508

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/2/2018 1:13:12 PM

3 Sample(s) were collected on 03/15/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52508. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4394

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52508-3MS, FA52508-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

FA52508-3: Confirmation run.

Matrix: AQ **Batch ID:** VN4985

FA52508-1: Confirmation run.

Matrix: AQ **Batch ID:** VN4989

Sample(s) FA52718-20MS, FA52718-20MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits.

FA52508-1 for Phenol: Associated BS recovery outside control limits.

FA52508-3 for Phenol: Associated BS recovery outside control limits.

FA52508-2 for Phenol: Associated BS recovery outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) FA52508-1, FA52508-3, OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

OP69284-BS for Nitrobenzene-d5: Outside control limits.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

FA52508-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52508-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52508-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52508-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52508-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52508-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52508-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52508-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52508-3 for Terphenyl-d14: Outside control limits due to dilution.

FA52508-3 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52508-3 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52508-3 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33483

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2FDUP, FA52403-2FMS, FA52403-2FMSD, FA52403-2FPS, FA52403-2FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP33488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1DUP, FA52509-1MS, FA52509-1MSD, FA52509-1PS, FA52509-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33488-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52508
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52508-1	**MW-22D (031518)**					
Toluene		0.0105	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0122	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0226	0.015		mg/l	SW846 8260B
Carbazole		0.0227	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0159	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0215	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.326	0.019		mg/l	SW846 8270D BY SIM
FA52508-2	**MW-20S (031518)**					
Benzene		0.0081	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0064	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0105	0.00095		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.00083	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00091	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00088	0.00019		mg/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene		0.00044	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00069	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00092	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0012	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0026	0.00095		mg/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene		0.00063	0.00019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0016	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0345	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0013	0.00095		mg/l	SW846 8270D BY SIM
Lead		0.0257	0.0050		mg/l	SW846 6010C
FA52508-2F	**MW-20S (031518)**					
No hits reported in this sample.						
FA52508-3	**MW-23D (031518)**					
Benzene		0.0626	0.010		mg/l	SW846 8260B
Toluene		0.0555	0.010		mg/l	SW846 8260B
Ethylbenzene		0.114	0.010		mg/l	SW846 8260B
Xylene (total)		0.231	0.030		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0419	0.0049		mg/l	SW846 8270D
2-Methylphenol		0.0055	0.0049		mg/l	SW846 8270D
Carbazole		0.142	0.020		mg/l	SW846 8270D
Acenaphthene		0.122	0.098		mg/l	SW846 8270D BY SIM
Naphthalene		2.68	0.098		mg/l	SW846 8270D BY SIM

Summary of Hits

Job Number: FA52508
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA52508-3F **MW-23D (031518)**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-22D (031518)
Lab Sample ID:	FA52508-1
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/15/18
Date Received:	03/16/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109202.D	1	03/29/18 10:33	AB	n/a	n/a	VN4989
Run #2 [a]	N0109107.D	10	03/23/18 01:23	JG	n/a	n/a	VN4985

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	0.0105	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0122	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0226	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	104%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	83-118%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-22D (031518)
Lab Sample ID: FA52508-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059457.D	1	03/23/18 23:13	MV	03/22/18 08:00	OP69283	SX2485
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0227	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0159	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	63%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-22D (031518)
Lab Sample ID: FA52508-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3671.D	20	03/27/18 20:29	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.0215	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	ND	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.019	mg/l	
91-20-3	Naphthalene	0.326	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22D (031518)		
Lab Sample ID:	FA52508-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20S (031518)		
Lab Sample ID:	FA52508-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109217.D	1	03/29/18 16:37	AB	n/a	n/a	VN4989
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0081	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0064	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-20S (031518)
Lab Sample ID: FA52508-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059461.D	1	03/24/18 00:53	MV	03/22/18 08:00	OP69283	SX2485
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		14-67%
4165-62-2	Phenol-d5	25%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-20S (031518)
Lab Sample ID: FA52508-2 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3672.D	1	03/27/18 21:02	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0105	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.00083	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00091	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00088	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	0.00044	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00069	0.00019	mg/l	
218-01-9	Chrysene	0.00092	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0012	0.00095	mg/l	
86-73-7	Fluorene	0.0026	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.00063	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0016	0.00095	mg/l	
91-20-3	Naphthalene	0.0345	0.00095	mg/l	
85-01-8	Phenanthrene	0.0013	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	61% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20S (031518)		
Lab Sample ID:	FA52508-2	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0257	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-20S (031518)		
Lab Sample ID:	FA52508-2F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14764
(2) Prep QC Batch: MP33483

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D (031518)		
Lab Sample ID:	FA52508-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101980.D	2	03/23/18 03:58	JG	n/a	n/a	VM4394
Run #2 [a]	M0101979.D	10	03/23/18 03:30	JG	n/a	n/a	VM4394

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0626	0.010	mg/l	
108-88-3	Toluene	0.0555	0.010	mg/l	
100-41-4	Ethylbenzene	0.114	0.010	mg/l	
1330-20-7	Xylene (total)	0.231	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	79-125%
2037-26-5	Toluene-D8	100%	103%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	83-118%

(a) Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-23D (031518)
Lab Sample ID: FA52508-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059462.D	1	03/24/18 01:18	MV	03/22/18 08:00	OP69283	SX2485
Run #2	9I000658.D	4	03/26/18 15:55	MV	03/22/18 08:00	OP69283	S9I27

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	0.0419	0.0049	mg/l	
95-48-7	2-Methylphenol	0.0055	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [a]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	0.142 [b]	0.020	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%	30%	14-67%
4165-62-2	Phenol-d5	24%	27%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	111%	33-118%
4165-60-0	Nitrobenzene-d5	76%	90%	42-108%
321-60-8	2-Fluorobiphenyl	76%	85%	40-106%
1718-51-0	Terphenyl-d14	84%	93%	39-121%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-23D (031518)
Lab Sample ID: FA52508-3 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3673.D	100	03/27/18 21:35	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.098	mg/l	
83-32-9	Acenaphthene	0.122	0.098	mg/l	
208-96-8	Acenaphthylene	ND	0.098	mg/l	
120-12-7	Anthracene	ND	0.098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	mg/l	
218-01-9	Chrysene	ND	0.020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	mg/l	
206-44-0	Fluoranthene	ND	0.098	mg/l	
86-73-7	Fluorene	ND	0.098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.098	mg/l	
91-20-3	Naphthalene	2.68	0.098	mg/l	
85-01-8	Phenanthrene	ND	0.098	mg/l	
129-00-0	Pyrene	ND	0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23D (031518)		
Lab Sample ID:	FA52508-3	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-23D (031518)		
Lab Sample ID:	FA52508-3F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/22/18	03/22/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14764
(2) Prep QC Batch: MP33483

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52508 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@Arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCS 8270 (SIM)	Total Metals 6010/7470	Dissolved Metals Lab	COMMENTS	LAB USE
1	MW-22D(031518)	6	3/15/18	1010	RJW	N	Grab		X	X	X			
2	MW-20S(031518)	7	3/15/18	1140	RJW	N	Grab		X	X	X	X		
3	MW-23D(031518)	7	3/15/18	1105	RJW	N	Grab		X	X	X	X		
	TB-1(031518)	1	3/15/18											

	Date Time		Date Time	
Relinquished By: Ricky White / Arcadis	3/15/18 1230	Received By: FX		Comments & Special Analytical Requirements: See Table 1 for Site COCs; Dissolved Metals Lab filter & Preserve (1L Amber)
Relinquished By: FX	03-16-18	Received By: J. Cope	09:30	
Relinquished By:		Received By:		
Received By Laboratory:		Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.4

5.1

FA52508: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	Note 1
Acenaphthylene	X	0.73	0.071	Note 1
Anthracene	X	31	9.12	Note 1
Benzo(a)anthracene	X	0.01	0.0001	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	X	***	***	Note 1
Benzo(k)fluoranthene	X	0.039	0.0002	Note 1
Carbazole	X	0.14	0.043	Note 1
Chrysene	X	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	X	0.01	0.0003	Note 1
Dibenzofuran	X	0.2	0.015	Note 1
Fluoranthene	X	0.818	0.243	Note 1
Fluorene	X	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	X	0.01	0.0	Note 1
2-Methylnaphthalene	X	0.41	0.031	Note 1
Naphthalene	X	4.09	1.22	Note 1
Phenanthrene	X	0.310	0.023	Note 1
Pyrene	X	3.07	0.912	Note 1
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenollc Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52508: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52508 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 7800 9825 1984

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑
	W	**S**	**N/A**
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 2 VOA vials received instead of 3,1 Amber Bottle received instead of 2 for Extractions,SAMPLE #1

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/16/2018 9:30:00 AM Reviewer: AH Date: 4/2/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52509

Sampling Date: 03/15/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **16**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.

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Sample Summary

CSX Transportation

Job No: FA52509

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52509-1	03/15/18	14:35	CS	03/16/18	AQ	Ground Water	MW-53B (031518)
FA52509-1D	03/15/18	14:35	CS	03/16/18	AQ	Water Dup/MSD	MW-53B (031518)
FA52509-1F	03/15/18	14:35	CS	03/16/18	AQ	Groundwater Filtered	MW-53B (031518)
FA52509-1FD	03/15/18	14:35	CS	03/16/18	AQ	Water Dup/MSD	MW-53B (031518)
FA52509-1FS	03/15/18	14:35	CS	03/16/18	AQ	Water Matrix Spike	MW-53B (031518)
FA52509-1S	03/15/18	14:35	CS	03/16/18	AQ	Water Matrix Spike	MW-53B (031518)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52509

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:49:12

1 Sample(s) were collected on 03/15/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52509. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1947

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52509-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52509-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52509-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52509-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33487

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1FDUP, FA52509-1FMS, FA52509-1FMSD, FA52509-1FPS, FA52509-1FSDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33487-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1DUP, FA52509-1MS, FA52509-1MSD, FA52509-1PS, FA52509-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33488-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52509
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/15/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52509-1	**MW-53B (031518)**					
Naphthalene		0.0072	0.00096		mg/l	SW846 8270D BY SIM
FA52509-1F	**MW-53B (031518)**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-53B (031518)		
Lab Sample ID:	FA52509-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51833.D	1	03/22/18 22:00	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53B (031518)
Lab Sample ID: FA52509-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059403.D	1	03/22/18 01:51	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	83%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	61%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-53B (031518)
Lab Sample ID: FA52509-1 **Date Sampled:** 03/15/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3637.D	1	03/26/18 21:02	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0072	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	76% [a]		33-118%
4165-60-0	Nitrobenzene-d5	69% [a]		42-108%
321-60-8	2-Fluorobiphenyl	71% [a]		40-106%
1718-51-0	Terphenyl-d14	42% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-53B (031518)		
Lab Sample ID:	FA52509-1	**Date Sampled:**	03/15/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-53B (031518)		
Lab Sample ID:	FA52509-1F	**Date Sampled:**	03/15/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33487

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52509 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN 000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: Data CD only
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCS 8270	Total Metals (6010B/7470A)	Dissolved Metals (Pb)	COMMENTS	LAB USE
(1) MW-53B(031518)	2 1	3-15-18	1435	CS	N	G		X	X	X	X	MS/MSD	
TB-1 (031518)	1	3-15-18											

Relinquished By:	Date Time:	Received By: FX	Date Time:	Comments & Special Analytical Requirements:	
Relinquished By: FX	Date Time:	Received By: J. Crane	Date Time: 03-16-18 09:30	-See Table for offsite COCs -Provide In Stand Alone Rep.	
Relinquished By:	Date Time:	Received By:	Date Time:	-Dissolved Metals - lab filter and preserve	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

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FA52509: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibenzofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX	X	0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds	X	2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates	X	20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexy)phthalate	X			
Metals	X	0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52509: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52509 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 7800 9825 1984

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 2 VOA vials received instead of 3, 1 VIAL RECEIVED BROKEN

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52510

Sampling Date: 03/14/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 24

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52510

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52510-1	03/14/18	12:55	CS	03/16/18	AQ	Ground Water	MW-43A (031418)
FA52510-1F	03/14/18	12:55	CS	03/16/18	AQ	Groundwater Filtered	MW-43A (031418)
FA52510-2	03/14/18	14:50	CS	03/16/18	AQ	Ground Water	MW-17D (031418)
FA52510-2F	03/14/18	14:50	CS	03/16/18	AQ	Groundwater Filtered	MW-17D (031418)
FA52510-3	03/14/18	16:40	CS	03/16/18	AQ	Ground Water	MW-6D (031418)
FA52510-3F	03/14/18	16:40	CS	03/16/18	AQ	Groundwater Filtered	MW-6D (031418)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52510

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 11:44:28

3 Sample(s) were collected on 03/14/2018 and were received at SGS North America Inc - Orlando on 03/16/2018 properly preserved, at 3.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52510. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52689-5MS, FA52689-5MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69267

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69268

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

RPD(s) for MSD for Pyrene are outside control limits for sample OP69268-MSD. Probable cause is due to sample non-homogeneity.

OP69268-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69268-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52510-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52510-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52510-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52510-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52510-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52510-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52510-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52510-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33476

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52403-2DUP, FA52403-2MS, FA52403-2MSD, FA52403-2PS, FA52403-2SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33476-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33488

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1DUP, FA52509-1MS, FA52509-1MSD, FA52509-1PS, FA52509-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33488-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33488-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52510
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/14/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52510-1	**MW-43A (031418)**					
Benzene		0.0116	0.0050		mg/l	SW846 8260B
FA52510-1F	**MW-43A (031418)**					
No hits reported in this sample.						
FA52510-2	**MW-17D (031418)**					
No hits reported in this sample.						
FA52510-2F	**MW-17D (031418)**					
No hits reported in this sample.						
FA52510-3	**MW-6D (031418)**					
Carbazole		0.0059	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0045	0.00096		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0010	0.00096		mg/l	SW846 8270D BY SIM
Fluorene		0.0052	0.00096		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0043	0.00096		mg/l	SW846 8270D BY SIM
FA52510-3F	**MW-6D (031418)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-43A (031418)
Lab Sample ID: FA52510-1 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51926.D	1	03/24/18 06:42	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0116	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-43A (031418)		
Lab Sample ID:	FA52510-1	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-43A (031418)
Lab Sample ID: FA52510-1F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/14/18
Date Received: 03/16/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-17D (031418)
Lab Sample ID: FA52510-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51927.D	1	03/24/18 07:02	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17D (031418)
Lab Sample ID: FA52510-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059416.D	1	03/22/18 07:03	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	75%		33-118%
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17D (031418)
Lab Sample ID: FA52510-2 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3640.D	1	03/26/18 22:40	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	56% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	58% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17D (031418)
Lab Sample ID: FA52510-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/14/18
Date Received: 03/16/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-17D (031418)
Lab Sample ID: FA52510-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/14/18
Date Received: 03/16/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-6D (031418)
Lab Sample ID: FA52510-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51928.D	1	03/24/18 07:23	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6D (031418)
Lab Sample ID: FA52510-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059417.D	1	03/22/18 07:28	MV	03/21/18 09:00	OP69267	SX2484
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0059	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-6D (031418)
Lab Sample ID: FA52510-3 **Date Sampled:** 03/14/18
Matrix: AQ - Ground Water **Date Received:** 03/16/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3641.D	1	03/26/18 23:13	NJ	03/21/18 09:00	OP69268	S4D136
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	0.0045	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0010	0.00096	mg/l	
86-73-7	Fluorene	0.0052	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	0.0043	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	79% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	56% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6D (031418)		
Lab Sample ID:	FA52510-3	**Date Sampled:**	03/14/18
Matrix:	AQ - Ground Water	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/23/18	03/23/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14768
(2) Prep QC Batch: MP33488

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6D (031418)		
Lab Sample ID:	FA52510-3F	**Date Sampled:**	03/14/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/16/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/21/18	03/21/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14760
(2) Prep QC Batch: MP33476

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52510

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94/5829
CSXT Project Name: IN CREOSOTE
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. Ste 728
City, State, Zip: Indianapolis, IN
Project #: IN000077000001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: _____
- [ ] EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOC 8270 (Site only)	Total metals 6010 (As+Pb)	Dissolved 6010 (As+Pb)	COMMENTS	LAB USE
MW-43A(031418)	7	3-14-18	1255	CS	Y	G.ab		X	X	X	X		
MW-17D(031418)	7	3-14-18	1450	CS	Y	Grab		X	X	X	X		
MW-6D(031418)	6	3-14-18	1640	CS	Y	Grab		X	X	X	X		
TB-1(031418)	1	3-14-18											

Relinquished By:	Date Time:	Received By:	Date Time:
FX		FX	
Relinquished By:	Date Time:	Received By:	Date Time:
		[illegible]	03/16/18 09:30
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No; Custody Seal #; LAB Log Number #

Comments & Special Analytical Requirements:
- See table for site COCs
- Dissolved Metal filter + preserve (1L amber)

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.8

Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX	X	0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds	X	2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates	X	20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals	X	0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52510: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52510 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/16/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 7800 7144 8667

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 1 vial received instead of 3 for sample #2,1 Amber Bottle received instead of 2 for Extractions for sample #3

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/16/2018 9:30:00 AM Reviewer: P.H Date: 3/16/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52587

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 26

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52587

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52587-1	03/16/18	13:25	RW	03/19/18	AQ	Ground Water	MW-46A (031618)
FA52587-1F	03/16/18	13:25	RW	03/19/18	AQ	Groundwater Filtered	MW-46A (031618)
FA52587-2	03/16/18	11:10	RW	03/19/18	AQ	Ground Water	MW-51B (031618)
FA52587-2F	03/16/18	11:10	RW	03/19/18	AQ	Groundwater Filtered	MW-51B (031618)
FA52587-3	03/16/18	00:00	RW	03/19/18	AQ	Ground Water	DUP-1 (031618)
FA52587-3F	03/16/18	00:00	RW	03/19/18	AQ	Groundwater Filtered	DUP-1 (031618)
FA52587-4	03/16/18	14:15	RW	03/19/18	AQ	Equipment Blank	EB-1 (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52587

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/2/2018 3:50:27 PM

4 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52587. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1947

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52509-1MS, FA52509-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits.

FA52587-1 for Phenol: Associated BS recovery outside control limits.

FA52587-2 for Phenol: Associated BS recovery outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) FA52587-1, OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

FA52587-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52587-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52587-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52587-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52587-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52587-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52587-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52587-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52587-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52587-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52587-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52587-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33492

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52548-4DUP, FA52548-4MS, FA52548-4MSD, FA52548-4PS, FA52548-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33492-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33492-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33499

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52531-5DUP, FA52531-5MS, FA52531-5MSD, FA52531-5PS, FA52531-5SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33499-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP33499-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52587
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52587-1	**MW-46A (031618)**					
Benzene		0.0138	0.0050		mg/l	SW846 8260B
Toluene		0.0089	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0093	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0244	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0171	0.0048		mg/l	SW846 8270D
Carbazole		0.0144	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0178	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0260	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0299	0.019		mg/l	SW846 8270D BY SIM
Naphthalene		0.418	0.019		mg/l	SW846 8270D BY SIM
Arsenic		0.0101	0.010		mg/l	SW846 6010C
FA52587-1F	**MW-46A (031618)**					
No hits reported in this sample.						
FA52587-2	**MW-51B (031618)**					
Benzene		0.0094	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0028	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0025	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0110	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0046	0.00095		mg/l	SW846 8270D BY SIM
FA52587-2F	**MW-51B (031618)**					
No hits reported in this sample.						
FA52587-3	**DUP-1 (031618)**					
Benzene		0.0092	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0033	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0030	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0186	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0056	0.00095		mg/l	SW846 8270D BY SIM
FA52587-3F	**DUP-1 (031618)**					
No hits reported in this sample.						
FA52587-4	**EB-1 (031618)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-46A (031618)
Lab Sample ID:	FA52587-1
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/16/18
Date Received:	03/19/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51834.D	1	03/22/18 22:20	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0138	0.0050	mg/l	
108-88-3	Toluene	0.0089	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0093	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0244	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46A (031618)
Lab Sample ID:	FA52587-1
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/16/18
Date Received:	03/19/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059463.D	1	03/24/18 01:43	MV	03/22/18 08:00	OP69283	SX2485
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0171	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0144	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0178	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-46A (031618)
Lab Sample ID: FA52587-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3674.D	20	03/27/18 22:08	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.0260	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/l	
218-01-9	Chrysene	ND	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	ND	0.019	mg/l	
86-73-7	Fluorene	ND	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.0299	0.019	mg/l	
91-20-3	Naphthalene	0.418	0.019	mg/l	
85-01-8	Phenanthrene	ND	0.019	mg/l	
129-00-0	Pyrene	ND	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [a]		33-118%
4165-60-0	Nitrobenzene-d5	0% [a]		42-108%
321-60-8	2-Fluorobiphenyl	0% [a]		40-106%
1718-51-0	Terphenyl-d14	0% [a]		39-121%

(a) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-46A (031618)
Lab Sample ID: FA52587-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0101	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-46A (031618)		
Lab Sample ID:	FA52587-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-51B (031618)
Lab Sample ID: FA52587-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51835.D	1	03/22/18 22:41	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0094	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52587-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059464.D	1	03/24/18 02:07	MV	03/22/18 08:00	OP69283	SX2485
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	80%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (031618)
Lab Sample ID: FA52587-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3675.D	1	03/27/18 22:41	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0028	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0025	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0110	0.00095	mg/l	
85-01-8	Phenanthrene	0.0046	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52587-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52587-2F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031618)		
Lab Sample ID:	FA52587-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51836.D	1	03/22/18 23:02	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0092	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52587-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01811.D	1	03/28/18 15:07	FS	03/22/18 08:00	OP69284	S7G81
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0033	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0030	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0186	0.00095	mg/l	
85-01-8	Phenanthrene	0.0056	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93% [a]		33-118%
4165-60-0	Nitrobenzene-d5	74% [a]		42-108%
321-60-8	2-Fluorobiphenyl	73% [a]		40-106%
1718-51-0	Terphenyl-d14	75% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52587-3
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031618)		
Lab Sample ID:	FA52587-3F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: EB-1 (031618)
Lab Sample ID: FA52587-4 **Date Sampled:** 03/16/18
Matrix: AQ - Equipment Blank **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51837.D	1	03/22/18 23:22	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52587

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: FED-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: DAN DYER
Proj. State (State of Origin): IN
Proj. City: BLOOMINGTON
LWON: ENV 53216

CONSULTANT INFORMATION
Company: ARCADIS
Address: 150 W. MARKET, STE. 728
City, State, Zip: INDIANAPOLIS, IN 46204
Project #: IN000072.0077-00001
PM: RANDALL WOODRUFF
Email: RANDALL.WOODRUFF@ARCADIS.COM
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: DATA CD ONLY
- [x] EDD Required, Format: EXCEL

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ 1 0 2 0 — Pres. Code

Matrix Codes: SO = Soil; GW = Groundwater; WW = Waste Water; SW = Surface Water; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

METHODS FOR ANALYSIS

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	8260	SVOCs 8270 (SITE COC ONLY)	TOTAL METALS 6010 (As, Pb)	DISSOLVED METALS 6010 (As, Pb)	COMMENTS	LAB USE
MW-46A (031618)	1 7	3-16-18	1325					X	X	X	X		
MW-51B (031618)	2 7	3-16-18	1110					X	X	X	X		
Dup-1 (031618)	3 7	3-16-18	—					X	X	X	X		
EB-1 (031618)	4 3	3-16-18	1415					X					
TB-1 (031618)	1												

Relinquished By:	Date Time:	Received By:	Date Time:
		Fed Ex	
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory: 03/19/18 900	Date Time:	Lab Remarks: 3.6	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- SEE TABLE 1 FOR SITE COCs
- PROVIDE IN STAND ALONE REPORT
* DISSOLVED METALS - LAB FILTER + PRESERVE (1L AMBER)

Custody Seal # #
LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

FA52587: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	Note 1
Acenaphthene	X	0.73	0.071	Note 1
Acenaphthylene	X	31	9.12	Note 1
Anthracene	X	0.01	0.0001	Note 1
Benzo(a)anthracene	X	0.01	0.0002	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	***	***	Note 1
Benzo(g,h,i)perylene	X	0.039	0.0002	Note 1
Benzo(k)fluoranthene	X	0.14	0.043	Note 1
Carbazole	X	0.392	0.0002	Note 1
Chrysene	X	0.01	0.0003	Note 1
Dibenzo(a,h)anthracene	X	0.2	0.015	Note 1
Dibenzofuran	X	0.818	0.243	Note 1
Fluoranthene	X	4.09	1.22	Note 1
Fluorene	X	0.01	0.0	Note 1
Indeno(123-c,d)pyrene	X	0.41	0.031	Note 1
2-Methlynaphthalene	X	4.09	1.22	Note 1
Naphthalene	X	0.310	0.023	Note 1
Phenanthrene	X	3.07	0.912	Note 1
Pyrene	X			
BTEX				
Benzene	X	0.099	0.005	0.005
Toluene	X	10.2	0.7	0.7
Ethylbenzene	X	20.4	1	1
Exylenes	X	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	5.11	1.52	Note 1
Pentachlorophenol	X	0.05	0.001	Note 1
2,4-Dichlorophenol	X	0.31	0.11	Note 1
Phenol	X	12	3.65	Note 1
2,4,6-Trichlorophenol	X	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	X	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	Note 1
Metals				
Arsenic	X	0.05	0.05	0.005
Lead	X	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52587: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52587 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☑	☐
2. Trip Blank listed on COC	☑	☐	☐
	W	**S**	**N/A**
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Broken / Leaking		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #2 LAB FILTER AMBER REC'D BROKEN. SPLIT 8270 AMBER FOR METALS. NO TB REC'D.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: AH Date: 4/2/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52588

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **16**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52588

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52588-1	03/16/18	16:10	RW	03/19/18	AQ	Ground Water	MW-11D (031618)
FA52588-1D	03/16/18	16:10	RW	03/19/18	AQ	Water Dup/MSD	MW-11D (031618)
FA52588-1F	03/16/18	16:10	RW	03/19/18	AQ	Groundwater Filtered	MW-11D (031618)
FA52588-1FD	03/16/18	16:10	RW	03/19/18	AQ	Water Dup/MSD	MW-11D (031618)
FA52588-1FS	03/16/18	16:10	RW	03/19/18	AQ	Water Matrix Spike	MW-11D (031618)
FA52588-1S	03/16/18	16:10	RW	03/19/18	AQ	Water Matrix Spike	MW-11D (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52588

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/29/2018 12:45:56

1 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 3.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52588. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1948

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits.

FA5288-1 for Phenol: Associated BS was outside of control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

FA52588-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52588-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52588-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52588-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33501

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1FDUP, FA52588-1FMS, FA52588-1FMSD, FA52588-1FPS, FA52588-1FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33501-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33501-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33511

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1DUP, FA52588-1MS, FA52588-1MSD, FA52588-1PS, FA52588-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33511-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52588
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52588-1	**MW-11D (031618)**					
Acenaphthene		0.0013	0.00098		mg/l	SW846 8270D BY SIM
FA52588-1F	**MW-11D (031618)**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-11D (031618)
Lab Sample ID:	FA52588-1
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/16/18
Date Received:	03/19/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51864.D	1	03/23/18 09:12	SP	n/a	n/a	VO1948
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11D (031618)		
Lab Sample ID:	FA52588-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059458.D	1	03/23/18 23:38	MV	03/22/18 08:00	OP69283	SX2485
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [a]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	68%		42-108%
321-60-8	2-Fluorobiphenyl	73%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-11D (031618)
Lab Sample ID: FA52588-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3668.D	1	03/27/18 18:49	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	0.0013	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	51% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-11D (031618)
Lab Sample ID: FA52588-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/28/18	03/28/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/28/18	03/28/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14776
(2) Prep QC Batch: MP33511

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-11D (031618)
Lab Sample ID: FA52588-1F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52588

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: INCREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market, Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD Only
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION	Containers	Sample Collection			Filtered	Type	Matrix	METHODS FOR ANALYSIS								COMMENTS	LAB USE
Sample Identification	Number & Type	Date	Time	Sampler	Y or N	Comp or Grab	Code	BTEX 8260	SVOCs 8270 (Site Specific)	Total Metals 6010 (As)	Dissolved Metals 6010 (As, Pb)						
TB-1 (031618)	1	3/16/18															
MW-11D (031618)	21	3/16/18	1610	RLW	N	Grab		X	X	X	X					MS/MSD	(1)

Relinquished By: Arcadis	Date Time: 3/16/18 1730	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See Table 1 for site COCs - Provide in Stand Alone Report * Dissolved Metals - lab filter & Preserve (1L amber)	
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory: 03/19/18 900	Date Time:	Lab Remarks: 3.8	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52588: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

SGS Sample Receipt Summary

Job Number: FA52588 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments NO TB REC'D

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: _____ Date: _____

FA52588: Chain of Custody
Page 3 of 3

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52590

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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General Manager

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Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52590

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52590-1	03/16/18	15:00	RW	03/19/18	AQ	Ground Water	MW-41A (031618)
FA52590-1F	03/16/18	15:00	RW	03/19/18	AQ	Groundwater Filtered	MW-41A (031618)
FA52590-2	03/16/18	09:40	RW	03/19/18	AQ	Ground Water	MW-37A (031618)
FA52590-2F	03/16/18	09:40	RW	03/19/18	AQ	Groundwater Filtered	MW-37A (031618)
FA52590-3	03/16/18	10:20	RW	03/19/18	AQ	Ground Water	MW-37B (031618)
FA52590-3F	03/16/18	10:20	RW	03/19/18	AQ	Groundwater Filtered	MW-37B (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52590

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/29/2018 12:47:23

3 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52590. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VM4394

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52508-3MS, FA52508-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene, Toluene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Xylene (total) are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

FA52590-1: Sample was not preserved to a pH < 2.

FA52590-3: Dilution required due to matrix interference (non-target compounds above calibration range).

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA52590-1, 2 for Phenol: Associated BS was outside of control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

FA52590-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52590-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52590-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52590-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

FA52590-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52590-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52590-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52590-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52590-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52590-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52590-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33492

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52548-4DUP, FA52548-4MS, FA52548-4MSD, FA52548-4PS, FA52548-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33492-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33492-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33499

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52531-5DUP, FA52531-5MS, FA52531-5MSD, FA52531-5PS, FA52531-5SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33499-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP33499-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52590
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52590-1	**MW-41A (031618)**					
Naphthalene		0.0019	0.0011		mg/l	SW846 8270D BY SIM
Arsenic		0.0709	0.010		mg/l	SW846 6010C
Lead		0.0931	0.0050		mg/l	SW846 6010C
FA52590-1F	**MW-41A (031618)**					
No hits reported in this sample.						
FA52590-2	**MW-37A (031618)**					
Arsenic		0.0181	0.010		mg/l	SW846 6010C
Lead		0.0053	0.0050		mg/l	SW846 6010C
FA52590-2F	**MW-37A (031618)**					
No hits reported in this sample.						
FA52590-3	**MW-37B (031618)**					
Benzene [a]		0.0595	0.050		mg/l	SW846 8260B
Carbazole		0.0101	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0103	0.0048		mg/l	SW846 8270D
Acenaphthene		0.116	0.0048		mg/l	SW846 8270D BY SIM
Fluorene		0.0295	0.0048		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0996	0.0048		mg/l	SW846 8270D BY SIM
Naphthalene		0.157	0.0048		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0059	0.0048		mg/l	SW846 8270D BY SIM
FA52590-3F	**MW-37B (031618)**					
No hits reported in this sample.						

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-41A (031618)		
Lab Sample ID:	FA52590-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0101976.D	1	03/23/18 02:06	JG	n/a	n/a	VM4394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was not preserved to a pH < 2.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (031618)
Lab Sample ID: FA52590-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000659.D	1	03/26/18 16:27	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0056	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0056	mg/l	
95-48-7	2-Methylphenol	ND	0.0056	mg/l	
	3&4-Methylphenol	ND	0.0056	mg/l	
108-95-2	Phenol [a]	ND	0.0056	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0056	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0056	mg/l	
86-74-8	Carbazole	ND	0.0056	mg/l	
132-64-9	Dibenzofuran	ND	0.0056	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0056	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-67%
4165-62-2	Phenol-d5	24%		10-50%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	82%		42-108%
321-60-8	2-Fluorobiphenyl	80%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-41A (031618)
Lab Sample ID: FA52590-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3677.D	1	03/27/18 23:47	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0011	mg/l	
83-32-9	Acenaphthene	ND	0.0011	mg/l	
208-96-8	Acenaphthylene	ND	0.0011	mg/l	
120-12-7	Anthracene	ND	0.0011	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00022	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00022	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00022	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00022	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00022	mg/l	
218-01-9	Chrysene	ND	0.00022	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00022	mg/l	
206-44-0	Fluoranthene	ND	0.0011	mg/l	
86-73-7	Fluorene	ND	0.0011	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00022	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0011	mg/l	
91-20-3	Naphthalene	0.0019	0.0011	mg/l	
85-01-8	Phenanthrene	ND	0.0011	mg/l	
129-00-0	Pyrene	ND	0.0011	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	66% [a]		33-118%
4165-60-0	Nitrobenzene-d5	65% [a]		42-108%
321-60-8	2-Fluorobiphenyl	58% [a]		40-106%
1718-51-0	Terphenyl-d14	53% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-41A (031618)		
Lab Sample ID:	FA52590-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0709	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0931	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-41A (031618)		
Lab Sample ID:	FA52590-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-37A (031618)
Lab Sample ID: FA52590-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0101977.D	1	03/23/18 02:34	JG	n/a	n/a	VM4394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A (031618)
Lab Sample ID: FA52590-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000660.D	1	03/26/18 16:52	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [a]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	75%		40-106%
1718-51-0	Terphenyl-d14	58%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37A (031618)
Lab Sample ID: FA52590-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3678.D	1	03/28/18 00:20	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	60% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	41% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37A (031618)		
Lab Sample ID:	FA52590-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.0181	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0053	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37A (031618)		
Lab Sample ID:	FA52590-2F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (031618)		
Lab Sample ID:	FA52590-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0101978.D	10	03/23/18 03:02	JG	n/a	n/a	VM4394
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0595	0.050	mg/l	
108-88-3	Toluene	ND	0.050	mg/l	
100-41-4	Ethylbenzene	ND	0.050	mg/l	
1330-20-7	Xylene (total)	ND	0.15	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Dilution required due to matrix interference (non-target compounds above calibration range).

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-37B (031618)
Lab Sample ID: FA52590-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000661.D	1	03/26/18 17:18	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0101	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0103	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	66%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (031618)
Lab Sample ID:	FA52590-3
Matrix:	AQ - Ground Water
Method:	SW846 8270D BY SIM SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/16/18
Date Received:	03/19/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3679.D	5	03/28/18 00:53	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0048	mg/l	
83-32-9	Acenaphthene	0.116	0.0048	mg/l	
208-96-8	Acenaphthylene	ND	0.0048	mg/l	
120-12-7	Anthracene	ND	0.0048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00096	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00096	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00096	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00096	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00096	mg/l	
218-01-9	Chrysene	ND	0.00096	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00096	mg/l	
206-44-0	Fluoranthene	ND	0.0048	mg/l	
86-73-7	Fluorene	0.0295	0.0048	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00096	mg/l	
91-57-6	2-Methylnaphthalene	0.0996	0.0048	mg/l	
91-20-3	Naphthalene	0.157	0.0048	mg/l	
85-01-8	Phenanthrene	0.0059	0.0048	mg/l	
129-00-0	Pyrene	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71% [a]		33-118%
4165-60-0	Nitrobenzene-d5	77% [a]		42-108%
321-60-8	2-Fluorobiphenyl	71% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-37B (031618)		
Lab Sample ID:	FA52590-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-37B (031618)		
Lab Sample ID:	FA52590-3F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52590

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-EX
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: INCREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 350 W. Market St. Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000078.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500
Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD only
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note Pres. Code: BTEX 8260	SVOCs 8270 (Site COCs)	Total Metals 6010 (Pb)	Dissolved 6010 (As, Pb) Metals	COMMENTS	LAB USE
MW-41A (031618)	7	3/16/18	1500	RJW	N	Grab		X	X	X	X		1
MW-37A (031618)	7	3/16/18	940	RJW	N	Grab		X	X	X	X		2
MW-37B (031618)	7	3/16/18	1020	RJW	N	Grab		X	X	X	X		3
TB-1 (031618)	1	3/16/18											

	Relinquished By:	Date Time:	Received By:	Date Time:
1	Ashley White/Arcadis	3/16/18 1700	Fed Ex	
2	Fed Ex			
3				

Comments & Special Analytical Requirements:
- See Table 1 for site COCs
- Provide in stand alone report
- *Dissolved Metals - lab filter + Preserve (1L amber)

Received By Laboratory: 03/19/18 Date Time: 900 Lab Remarks: 4.0
LAB USE: Custody Intact: [ ] Yes [ ] No
Custody Seal #: #
LAB Log Number: #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52590: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52590 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: AR Date: 3/20/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52592

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52592

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52592-1	03/16/18	13:05	RW	03/19/18	AQ	Ground Water	MW-40A (031618)
FA52592-1F	03/16/18	13:05	RW	03/19/18	AQ	Groundwater Filtered	MW-40A (031618)
FA52592-2	03/16/18	11:50	RW	03/19/18	AQ	Ground Water	MW-40B (031618)
FA52592-2F	03/16/18	11:50	RW	03/19/18	AQ	Groundwater Filtered	MW-40B (031618)
FA52592-3	03/16/18	12:25	RW	03/19/18	AQ	Ground Water	MW-40C (031618)
FA52592-3F	03/16/18	12:25	RW	03/19/18	AQ	Groundwater Filtered	MW-40C (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52592

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 9:43:25

3 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52592. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1949

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52609-2MS, FA52609-2MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** VO1950

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52689-5MS, FA52689-5MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA52592-1, 2, 3 for Phenol: Associated Blank Spike outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

FA52592-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52592-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52592-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52592-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

FA52592-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52592-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52592-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52592-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52592-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52592-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52592-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52592-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33492

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52548-4DUP, FA52548-4MS, FA52548-4MSD, FA52548-4PS, FA52548-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33492-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33492-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33499

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52531-5DUP, FA52531-5MS, FA52531-5MSD, FA52531-5PS, FA52531-5SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33499-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP33499-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33501

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1FDUP, FA52588-1FMS, FA52588-1FMSD, FA52588-1FPS, FA52588-1FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33501-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33501-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52592
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52592-1	**MW-40A (031618)**					
Naphthalene		0.0027	0.00096		mg/l	SW846 8270D BY SIM
FA52592-1F	**MW-40A (031618)**					
No hits reported in this sample.						
FA52592-2	**MW-40B (031618)**					
Acenaphthene		0.0024	0.00095		mg/l	SW846 8270D BY SIM
FA52592-2F	**MW-40B (031618)**					
No hits reported in this sample.						
FA52592-3	**MW-40C (031618)**					
Fluoranthene		0.0032	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0017	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0025	0.00095		mg/l	SW846 8270D BY SIM
FA52592-3F	**MW-40C (031618)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-40A (031618)		
Lab Sample ID:	FA52592-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51931.D	1	03/24/18 08:28	SP	n/a	n/a	VO1950
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40A (031618)		
Lab Sample ID:	FA52592-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000662.D	1	03/26/18 17:43	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	94%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40A (031618)
Lab Sample ID: FA52592-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01794.D	1	03/27/18 23:05	FS	03/22/18 08:00	OP69284	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	0.0027	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100% [a]		33-118%
4165-60-0	Nitrobenzene-d5	80% [a]		42-108%
321-60-8	2-Fluorobiphenyl	79% [a]		40-106%
1718-51-0	Terphenyl-d14	83% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40A (031618)
Lab Sample ID: FA52592-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40A (031618)		
Lab Sample ID:	FA52592-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-40B (031618)
Lab Sample ID: FA52592-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51911.D	1	03/24/18 01:27	SP	n/a	n/a	VO1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40B (031618)
Lab Sample ID: FA52592-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000663.D	1	03/26/18 18:08	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	91%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40B (031618)
Lab Sample ID: FA52592-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01795.D	1	03/27/18 23:29	FS	03/22/18 08:00	OP69284	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0024	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	97% [a]		33-118%
4165-60-0	Nitrobenzene-d5	83% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	80% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40B (031618)		
Lab Sample ID:	FA52592-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33499

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40B (031618)		
Lab Sample ID:	FA52592-2F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-40C (031618)
Lab Sample ID: FA52592-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51903.D	1	03/23/18 22:42	SP	n/a	n/a	VO1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40C (031618)
Lab Sample ID: FA52592-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000664.D	1	03/26/18 18:34	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	94%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	77%		40-106%
1718-51-0	Terphenyl-d14	72%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-40C (031618)
Lab Sample ID: FA52592-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01796.D	1	03/27/18 23:53	FS	03/22/18 08:00	OP69284	S7G80
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0032	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0017	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	0.0025	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	104% [a]		33-118%
4165-60-0	Nitrobenzene-d5	84% [a]		42-108%
321-60-8	2-Fluorobiphenyl	82% [a]		40-106%
1718-51-0	Terphenyl-d14	81% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40C (031618)		
Lab Sample ID:	FA52592-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-40C (031618)		
Lab Sample ID:	FA52592-3F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52592

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 94158201
CSXT Project Name: IN CREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000078, 0077.00801
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days _____
- [x] Standard 14 Days
- [ ] Other _____

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD only
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (Site Specific)	Total Metals 6010 (As, Pb) 7470	Dissolved Metals 6010 (As, Pb) 7470					COMMENTS	LAB USE
TB-1 (031618)	1	3/16/18															
MW-40A (031618)	7	3/16/18	1305	RJW	N	Grab		X	X	X	X						1
MW-40B (031618)	7	3/16/18	1150	RJW	N	Grab		X	X	X	X						2
MW-40C (031618)	7	3/16/18	1225	RJW	N	Grab		X	X	X	X						3

Relinquished By: Ruby Wheeler/Arcadis	Date Time: 3/16/18 1720	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See table 1 for site cocs -Provide in stand alone report * Dissolved Metals - lab filter + Preserve (1L amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory: 03/19/18 900	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — 4.0 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52592: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibenzofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52592: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52592 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #3 LAB FILTER METAL AMBER REC'D BROKEN. SPLIT OFF FROM 8270 AMBER.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: _____ Date: _____

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52594

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 22

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52594

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52594-1	03/16/18	15:40	CS	03/19/18	AQ	Ground Water	MW-52A (031618)
FA52594-1F	03/16/18	15:40	CS	03/19/18	AQ	Groundwater Filtered	MW-52A (031618)
FA52594-2	03/16/18	00:00	CS	03/19/18	AQ	Ground Water	DUP-1 (031618)
FA52594-2F	03/16/18	00:00	CS	03/19/18	AQ	Groundwater Filtered	DUP-1 (031618)
FA52594-3	03/16/18	17:45	CS	03/19/18	AQ	Equipment Blank	EB-1 (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52594

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 1:08:24

3 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 3.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA52594. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1949

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52609-2MS, FA52609-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Ethylbenzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recovery(s) for Ethylbenzene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) OP69283-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA52594-2 for Phenol: Associated BS recovery outside control limits.

FA52594-1 for Phenol: Associated BS recovery outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits. Probable cause is due to matrix interference.

FA52594-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

FA52594-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52594-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

FA52594-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52594-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52594-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52594-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52594-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33492

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52548-4DUP, FA52548-4MS, FA52548-4MSD, FA52548-4PS, FA52548-4SDL, FA52548-4DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33492-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33492-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33501

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1FDUP, FA52588-1FMS, FA52588-1FMSD, FA52588-1FPS, FA52588-1FSDL, FA52588-1FDUP were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33501-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33501-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA52594-2 for Lead: Sample dilution required due to difficult matrix.

FA52594-2 for Arsenic: Sample dilution required due to difficult matrix.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52594
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA52594-1 **MW-52A (031618)**

No hits reported in this sample.

FA52594-1F **MW-52A (031618)**

No hits reported in this sample.

FA52594-2 **DUP-1 (031618)**

No hits reported in this sample.

FA52594-2F **DUP-1 (031618)**

No hits reported in this sample.

FA52594-3 **EB-1 (031618)**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-52A (031618)
Lab Sample ID: FA52594-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51904.D	1	03/23/18 23:02	SP	n/a	n/a	VO1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A (031618)
Lab Sample ID: FA52594-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000665.D	1	03/26/18 18:59	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A (031618)
Lab Sample ID: FA52594-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3680.D	1	03/28/18 01:26	NJ	03/22/18 08:00	OP69284	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	62% [a]		42-108%
321-60-8	2-Fluorobiphenyl	55% [a]		40-106%
1718-51-0	Terphenyl-d14	52% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-52A (031618)
Lab Sample ID: FA52594-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-52A (031618)		
Lab Sample ID:	FA52594-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52594-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51905.D	1	03/23/18 23:23	SP	n/a	n/a	VO1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52594-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000666.D	1	03/26/18 19:25	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	95%		33-118%
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52594-2 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01810.D	1	03/28/18 14:44	FS	03/22/18 08:00	OP69284	S7G81
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	99% [a]		33-118%
4165-60-0	Nitrobenzene-d5	78% [a]		42-108%
321-60-8	2-Fluorobiphenyl	75% [a]		40-106%
1718-51-0	Terphenyl-d14	77% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1 (031618)
Lab Sample ID: FA52594-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic [a]	< 0.050	0.050	mg/l	5	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead [a]	< 0.025	0.025	mg/l	5	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

(a) Sample dilution required due to difficult matrix.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1 (031618)		
Lab Sample ID:	FA52594-2F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID: EB-1 (031618)
Lab Sample ID: FA52594-3 **Date Sampled:** 03/16/18
Matrix: AQ - Equipment Blank **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51906.D	1	03/23/18 23:44	SP	n/a	n/a	VO1949
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52594

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fed-Ex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000078.0077.00001
CSXT Project Name: INCREOSOTE	Proj. City: Bloomington	Address: 150 W. Market St, Ste 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN 46204	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6574

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☒ Other Deliv: Data ED only
- ☒ EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code: BTEX 8260	SVOCs 8270 (Acetone only)	Total Metals 6010 (As+Pb)	Dissolved Metals 6010 (As+Pb)	COMMENTS	LAB USE
MW-52A (031618)	7	3-16-18	1540	CS	N	G		X	X	X	X		1
Dup-1 (031618)	7	3-16-18	—	CS	N	G		X	X	X	X		2
EB-1 (031618)	3	3-16-18	1745	CS	N	G		X					3
TB-1 (031618)	1	3-16-18											

Relinquished By:	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
		Fed Ex		-See Table 1 for site COCs - Provide in stand alone report * Dissolved Metals - lab filter & Preserve (1L amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time: 03/19/18 900	Lab Remarks: 3.8	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52594: Chain of Custody
Page 1 of 3

Table 1: Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52594: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52594 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments NO TB REC'D

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: AR Date: 3/20/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52595

Sampling Date: 03/16/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **26**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52595

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52595-1	03/16/18	12:17	BC	03/19/18	AQ	Ground Water	MW-35A (031618)
FA52595-1F	03/16/18	12:17	BC	03/19/18	AQ	Groundwater Filtered	MW-35A (031618)
FA52595-2	03/16/18	13:22	BC	03/19/18	AQ	Ground Water	MW-35B (031618)
FA52595-2F	03/16/18	13:22	BC	03/19/18	AQ	Groundwater Filtered	MW-35B (031618)
FA52595-3	03/16/18	14:26	BC	03/19/18	AQ	Ground Water	MW-35C (031618)
FA52595-3F	03/16/18	14:26	BC	03/19/18	AQ	Groundwater Filtered	MW-35C (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52595

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date:** 4/3/2018 10:22:45

3 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 4.2 Deg. C and intact. These Samples received an SGS Orlando job number of FA52595. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VN4986

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52473-7MS, FA52473-7MSD were used as the QC samples indicated.

FA52595-2: Sample was treated with an anti-foaming agent.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Phenol are outside control limits.

Matrix Spike Duplicate Recovery(s) for Phenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Phenol are outside control limits for sample OP69283-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA52595-2, OP69283-MSD have surrogates outside control limits.

FA52595-1 for Phenol: Associated BS recovery outside control limits.

FA52595-2: Elevated reporting limit due to matrix interference, dilution required during sample prep.

FA52595-2 for Phenol: Associated BS recovery outside control limits.

FA52595-2 for Terphenyl-d14: Outside control limits due to matrix interference.

FA52595-3 for Phenol: Associated BS recovery outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1MS, FA52588-1MSD were used as the QC samples indicated.

Sample(s) FA52595-2, OP69284-BS, OP69284-MS, OP69284-MSD have surrogates outside control limits.

OP69284-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69284-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69284-BS for Nitrobenzene-d5: Outside control limits.

OP69284-BS for 2-Fluorobiphenyl: Outside control limits.

FA52595-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52595-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52595-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52595-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52595-2: Confirmed ND by re-extraction and reanalysis.

FA52595-2 for Terphenyl-d14: Outside control limits.

FA52595-2 for 2,4,6-Tribromophenol: Outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69284

FA52595-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52595-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52595-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52595-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Matrix: AQ **Batch ID:** OP69415

FA52595-2: Confirmation run.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33492

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52548-4DUP, FA52548-4MS, FA52548-4MSD, FA52548-4PS, FA52548-4SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33492-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33492-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33501

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52588-1FDUP, FA52588-1FMS, FA52588-1FMSD, FA52588-1FPS, FA52588-1FSDLwere used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33501-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33501-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52595
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA52595-1 **MW-35A (031618)**

No hits reported in this sample.

FA52595-1F **MW-35A (031618)**

No hits reported in this sample.

FA52595-2 **MW-35B (031618)**

No hits reported in this sample.

FA52595-2F **MW-35B (031618)**

No hits reported in this sample.

FA52595-3 **MW-35C (031618)**

No hits reported in this sample.

FA52595-3F **MW-35C (031618)**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-35A (031618)
Lab Sample ID: FA52595-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109134.D	1	03/23/18 17:40	JG	n/a	n/a	VN4986
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (031618)		
Lab Sample ID:	FA52595-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000667.D	1	03/26/18 19:50	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	93%		33-118%
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35A (031618)
Lab Sample ID: FA52595-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01806.D	1	03/28/18 13:09	FS	03/22/18 08:00	OP69284	S7G81
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96% [a]		33-118%
4165-60-0	Nitrobenzene-d5	86% [a]		42-108%
321-60-8	2-Fluorobiphenyl	81% [a]		40-106%
1718-51-0	Terphenyl-d14	85% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35A (031618)		
Lab Sample ID:	FA52595-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35A (031618)		
Lab Sample ID:	FA52595-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35B (031618)		
Lab Sample ID:	FA52595-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	N0109135.D	1	03/23/18 18:04	JG	n/a	n/a	VN4986
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample was treated with an anti-foaming agent.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (031618)		
Lab Sample ID:	FA52595-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	9I000668.D	1	03/26/18 20:15	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	5.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.024	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.024	mg/l	
95-48-7	2-Methylphenol	ND	0.024	mg/l	
	3&4-Methylphenol	ND	0.024	mg/l	
108-95-2	Phenol [b]	ND	0.024	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.024	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.024	mg/l	
86-74-8	Carbazole	ND	0.024	mg/l	
132-64-9	Dibenzofuran	ND	0.024	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	36%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	33% [c]		39-121%

(a) Elevated reporting limit due to matrix interference, dilution required during sample prep.
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (031618)		
Lab Sample ID:	FA52595-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	7G01809.D	1	03/28/18 14:20	FS	03/22/18 08:00	OP69284	S7G81
Run #2 [b]	7G01884.D	1	04/02/18 13:16	FS	03/30/18 14:20	OP69415	S7G84

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1050 ml	5.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	30% [c]	102%	33-118%
4165-60-0	Nitrobenzene-d5	75%	82%	42-108%
321-60-8	2-Fluorobiphenyl	69%	97%	40-106%
1718-51-0	Terphenyl-d14	31% [c]	84%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35B (031618)		
Lab Sample ID:	FA52595-2	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-35B (031618)
Lab Sample ID: FA52595-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/16/18
Date Received: 03/19/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (031618)		
Lab Sample ID:	FA52595-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109136.D	1	03/23/18 18:29	JG	n/a	n/a	VN4986
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (031618)		
Lab Sample ID:	FA52595-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000669.D	1	03/26/18 20:41	MV	03/22/18 08:00	OP69283	S9I27
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [a]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		14-67%
4165-62-2	Phenol-d5	15%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-35C (031618)
Lab Sample ID: FA52595-3 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01808.D	1	03/28/18 13:57	FS	03/22/18 08:00	OP69284	S7G81
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00096	mg/l	
83-32-9	Acenaphthene	ND	0.00096	mg/l	
208-96-8	Acenaphthylene	ND	0.00096	mg/l	
120-12-7	Anthracene	ND	0.00096	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00096	mg/l	
86-73-7	Fluorene	ND	0.00096	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00096	mg/l	
91-20-3	Naphthalene	ND	0.00096	mg/l	
85-01-8	Phenanthrene	ND	0.00096	mg/l	
129-00-0	Pyrene	ND	0.00096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100% [a]		33-118%
4165-60-0	Nitrobenzene-d5	81% [a]		42-108%
321-60-8	2-Fluorobiphenyl	78% [a]		40-106%
1718-51-0	Terphenyl-d14	84% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-35C (031618)		
Lab Sample ID:	FA52595-3	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14775
(2) Prep QC Batch: MP33501

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-35C (031618)		
Lab Sample ID:	FA52595-3F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/26/18	03/26/18	DM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14772
(2) Prep QC Batch: MP33492

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC # FA52595

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method:
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077
CSXT Project Name: IN Creosote	Proj. City: Bloomington, IN	Address: 150 W. Market St., Ste. 728	PM: ~~Steve Sharp~~ Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN 46204	Email: ~~rsharp@arcadis.com~~ rwoodruff@arcadis.com
			Phone: (317) 231-6500 Fax: (317) 231-6594

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☑ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☐ CSXT Standard (Level II)
- ☐ Level III
- ☑ Level IV
- ☐ Other Deliv: Data CD only, no hard copy
- ☑ EDD Required, Format: ~~Excel~~ Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION																		
Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code	BTEX 8260	SVOC 8270 SIM (only)	Total Metals (As, Pb) 6010	Dissolved Metals (As, Pb) 6010 Lab Filtered as received				COMMENTS	LAB USE
MW-35A(031618) 1	7 amber voa, plastic	3/16/18	1217	BC	N	G	GW	1 0 2 0	X	X	X	X					
MW-35B(031618) 2	7 amber voa, plastic	3/16/18	1322	BC	N	G	~~GW~~ GW		X	X	X	X					
MW-35C(031618) 3	7 amber voa, plastic	3/16/18	1426	BC	N	G	GW		X	X	X	X					
TB-1	1	3/16/18															

Relinquished By:	Date Time: 3/16/18	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: See attached table for site-specific constituents to be analyzed.
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory: 03/19/18	Date Time: 900	Lab Remarks: 4.2	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

FA52595: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52595: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52595 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments NO TB REC'D

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: _____ Date: _____

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52596

Sampling Date: 03/16/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **16**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52596

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52596-1	03/16/18	11:10	CS	03/19/18	AQ	Ground Water	MW-51B (031618)
FA52596-1D	03/16/18	11:10	CS	03/19/18	AQ	Water Dup/MSD	MW-51B (031618)
FA52596-1F	03/16/18	11:10	CS	03/19/18	AQ	Groundwater Filtered	MW-51B (031618)
FA52596-1FD	03/16/18	11:10	CS	03/19/18	AQ	Water Dup/MSD	MW-51B (031618)
FA52596-1FS	03/16/18	11:10	CS	03/19/18	AQ	Water Matrix Spike	MW-51B (031618)
FA52596-1S	03/16/18	11:10	CS	03/19/18	AQ	Water Matrix Spike	MW-51B (031618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52596

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 3/30/2018 10:43:26

1 Sample(s) were collected on 03/16/2018 and were received at SGS North America Inc - Orlando on 03/19/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52596. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1947

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA52596-1MS, FA52596-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69301

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52596-1MS, FA52596-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69302

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52596-1MS, FA52596-1MSD were used as the QC samples indicated.

Sample(s) OP69302-MS have surrogates outside control limits.

OP69302-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP69302-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.
OP69302-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.
OP69302-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52596-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52596-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52596-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52596-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33503

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52596-1FDUP, FA52596-1FMS, FA52596-1FMSD, FA52596-1FPS, FA52596-1FSDL were used as the QC samples for metals.

Matrix: AQ **Batch ID:** MP33514

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52596-1DUP, FA52596-1MS, FA52596-1MSD, FA52596-1PS, FA52596-1SDL, FA52596-1DUP were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33514-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33514-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52596
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/16/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52596-1	**MW-51B (031618)**					
Benzene		0.0090	0.0050		mg/l	SW846 8260B
Acenaphthene		0.0033	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0029	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0092	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0051	0.00095		mg/l	SW846 8270D BY SIM
FA52596-1F	**MW-51B (031618)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52596-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O51852.D	1	03/23/18 04:31	SP	n/a	n/a	VO1947
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0090	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (031618)
Lab Sample ID:	FA52596-1
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/16/18
Date Received:	03/19/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9I000627.D	1	03/23/18 16:09	MV	03/23/18 08:00	OP69301	S9I26
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	105%		33-118%
4165-60-0	Nitrobenzene-d5	76%		42-108%
321-60-8	2-Fluorobiphenyl	81%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-51B (031618)
Lab Sample ID: FA52596-1 **Date Sampled:** 03/16/18
Matrix: AQ - Ground Water **Date Received:** 03/19/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3663.D	1	03/27/18 15:59	NJ	03/23/18 08:00	OP69302	S4D138
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0033	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0029	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0092	0.00095	mg/l	
85-01-8	Phenanthrene	0.0051	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	59% [a]		42-108%
321-60-8	2-Fluorobiphenyl	53% [a]		40-106%
1718-51-0	Terphenyl-d14	57% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52596-1	**Date Sampled:**	03/16/18
Matrix:	AQ - Ground Water	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33514

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-51B (031618)		
Lab Sample ID:	FA52596-1F	**Date Sampled:**	03/16/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/19/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/27/18	03/27/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14774
(2) Prep QC Batch: MP33503

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52596

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed-Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
CSXT Project Name: IN CREOSOTE
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St, Ste 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000078.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [x] Other Deliv: Data CD Only
- [x] EDD Required, Format: Excel

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (SIM)	Total Metals 6010 (As, Pb)	Dissolved Metals 6010 (As, Pb)	COMMENTS	LAB USE
MW-51B (031618) (1)	21	3-16-18	1110	CS	N	G		X	X	X	X	MS/MSD	
TB-1 (031618)	1	3-16-18											

Relinquished By:	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
		Fed Ex		-See Table 1 for site COCs
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	- Provide in stand alone report
Relinquished By:	Date Time:	Received By:	Date Time:	* Dissolved Metals-lab filter & Preserve (1L amber)
Received By Laboratory: 03/19/18	Date Time: 900	Lab Remarks: 3.0	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52596: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

	Yes	Closure Limits		
Units		mg/L	mg/L	mg/L
		Industrial	Residential	Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexyl)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52596: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52596 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/19/2018 9:00:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891762570003281100780125595934

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments NO TB REC'D.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/19/2018 9:00:00 AM Reviewer: P.H Date: 3/20/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52712

Sampling Date: 03/22/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52712

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52712-1	03/22/18	11:15	RW	03/23/18	AQ	Ground Water	MW-P5 (032218)
FA52712-2	03/22/18	10:15	RW	03/23/18	AQ	Ground Water	MW-10 (032218)
FA52712-3	03/22/18	14:40	RW	03/23/18	AQ	Ground Water	MW-P4 (032218)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52712

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date:** 4/3/2018 1:28:48 PM

3 Sample(s)were collected on 03/22/2018 and were received at SGS North America Inc - Orlando on 03/23/2018 properly preserved, at 3.9 Deg. C and intact. These Samples received an SGS Orlando job number of FA52712. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VN4988

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52794-2MS, FA52794-2MSD were used as the QC samples indicated.

FA52712-1 for Xylene (total): Associated CCV outside of control limits high, sample was ND.

FA52712-2 for Xylene (total): Associated CCV outside of control limits high, sample was ND.

FA52712-3 for Xylene (total): Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69369

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52712-2MS, FA52712-2MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52807-2MS, FA52807-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

OP69370-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52712-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52712-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52712-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52712-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52712-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52712-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52712-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52712-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33515

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52681-1DUP, FA52681-1MS, FA52681-1MSD, FA52681-1PS, FA52681-1SDL were used as the QC samples for metals.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52712
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/22/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

FA52712-1 **MW-P5 (032218)**

No hits reported in this sample.

FA52712-2 **MW-10 (032218)**

No hits reported in this sample.

FA52712-3 **MW-P4 (032218)**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-P5 (032218)		
Lab Sample ID:	FA52712-1	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109181.D	1	03/29/18 01:06	AB	n/a	n/a	VN4988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total) [a]	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-P5 (032218)
Lab Sample ID: FA52712-1 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059586.D	1	03/29/18 13:19	MV	03/28/18 10:00	OP69369	SX2489
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	79%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	78%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-P5 (032218)
Lab Sample ID: FA52712-1 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01829.D	1	03/29/18 12:55	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P5 (032218)		
Lab Sample ID:	FA52712-1	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-10 (032218)		
Lab Sample ID:	FA52712-2	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109182.D	1	03/29/18 01:30	AB	n/a	n/a	VN4988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total) [a]	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-10 (032218)
Lab Sample ID: FA52712-2 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059587.D	1	03/29/18 13:44	MV	03/28/18 10:00	OP69369	SX2489
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	73%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	63%		40-106%
1718-51-0	Terphenyl-d14	74%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-10 (032218)
Lab Sample ID: FA52712-2 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01830.D	1	03/29/18 13:18	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	56% [a]		33-118%
4165-60-0	Nitrobenzene-d5	46% [a]		42-108%
321-60-8	2-Fluorobiphenyl	45% [a]		40-106%
1718-51-0	Terphenyl-d14	50% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10 (032218)		
Lab Sample ID:	FA52712-2	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P4 (032218)		
Lab Sample ID:	FA52712-3	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0109183.D	1	03/29/18 01:55	AB	n/a	n/a	VN4988
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total) [a]	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52712 COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582 9
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis IN
Project #: IN 000672.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: ____
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals (Soil)	Dissolved Metals (GW)	COMMENTS	LAB USE
MW-P5 (032218) 1	6	3/22/18	1115	RJW	N	Grab		X	X	X			
MW-10 (032218) 2	6	3/22/18	1015	RJW	N	Grab		X	X	X			
MW-P4 (032218) 3	3	3/22/18	1440	RJW	N	Grab		X					
TB-1 (032218)	1	3/22/18											

Relinquished By: Riley White / Arcadis	Date Time: 3/22/18 1630	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: - See Table for off site COCs - Dissolved Metals - lab filter & preserve (1L Amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time: 03/23/18 915	Lab Remarks: 3.9	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52712: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52712 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/23/2018 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826063310003281100780208960070

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.5);

Cooler Temps (Corrected) °C: Cooler 1: (3.9);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☑		☐	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments METALS BOTTLE REC'D FOR SAMPLE #3 NOT REQUESTED ON COC.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/23/2018 9:15:00 AM Reviewer: _____ Date: _____

FA52712: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52713

Sampling Date: 03/22/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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SGS LabLink@15:51 04-Apr-2018

Sample Summary

CSX Transportation

Job No: FA52713

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52713-1	03/22/18	14:25	RW	03/23/18	AQ	Ground Water	OW-1 (032218)
FA52713-1F	03/22/18	14:25	RW	03/23/18	AQ	Groundwater Filtered	OW-1 (032218)
FA52713-2	03/22/18	12:45	RW	03/23/18	AQ	Ground Water	OW-2 (032218)
FA52713-3	03/22/18	11:55	RW	03/23/18	AQ	Ground Water	OW-3 (032218)
FA52713-3F	03/22/18	11:55	RW	03/23/18	AQ	Groundwater Filtered	OW-3 (032218)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52713

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/4/2018 10:12:19

3 Sample(s) were collected on 03/22/2018 and were received at SGS North America Inc - Orlando on 03/23/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52713. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VJ5855

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52845-2MS, FA52845-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Benzene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69369

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52712-2MS, FA52712-2MSD were used as the QC samples indicated.

Sample(s) FA52713-2, FA52713-3 have surrogates outside control limits.

FA52713-2 for Phenol-d5: Outside control limits.

FA52713-2: Confirmed ND by re-extraction and reanalysis.

FA52713-3: Confirmed ND by re-extraction and reanalysis.

FA52713-3 for Phenol-d5: Outside control limits.

Matrix: AQ **Batch ID:** OP69414

FA52713-2: Confirmation run for surrogate recoveries.

FA52713-3: Confirmation run for surrogate recoveries.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52807-2MS, FA52807-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

OP69370-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52713-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52713-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52713-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52713-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

FA52713-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52713-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52713-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52713-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52713-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52713-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52713-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52713-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33515

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52681-1DUP, FA52681-1MS, FA52681-1MSD, FA52681-1PS, FA52681-1SDL were used as the QC samples for metals.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52713
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/22/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52713-1	**OW-1 (032218)**					
Dibenzofuran		0.0089	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0124	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0015	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0054	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0018	0.00095		mg/l	SW846 8270D BY SIM
FA52713-1F	**OW-1 (032218)**					
No hits reported in this sample.						
FA52713-2	**OW-2 (032218)**					
No hits reported in this sample.						
FA52713-3	**OW-3 (032218)**					
No hits reported in this sample.						
FA52713-3F	**OW-3 (032218)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	OW-1 (032218)		
Lab Sample ID:	FA52713-1	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990122.D	1	03/30/18 01:24	SP	n/a	n/a	VJ5855
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-1 (032218)
Lab Sample ID: FA52713-1 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059590.D	1	03/29/18 15:00	MV	03/28/18 10:00	OP69369	SX2489
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0089	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	14%		10-50%
118-79-6	2,4,6-Tribromophenol	88%		33-118%
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	74%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-1 (032218)
Lab Sample ID: FA52713-1 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01831.D	1	03/29/18 13:42	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0124	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0015	0.00095	mg/l	
86-73-7	Fluorene	0.0054	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	0.0018	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [a]		33-118%
4165-60-0	Nitrobenzene-d5	57% [a]		42-108%
321-60-8	2-Fluorobiphenyl	50% [a]		40-106%
1718-51-0	Terphenyl-d14	58% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-1 (032218)		
Lab Sample ID:	FA52713-1	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID: OW-1 (032218)
Lab Sample ID: FA52713-1F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/22/18
Date Received: 03/23/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-2 (032218)		
Lab Sample ID:	FA52713-2	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990123.D	1	03/30/18 01:52	SP	n/a	n/a	VJ5855
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (032218)		
Lab Sample ID:	FA52713-2	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059591.D	1	03/29/18 15:26	MV	03/28/18 10:00	OP69369	SX2489
Run #2 [b]	X059636.D	1	04/02/18 17:17	MV	03/30/18 14:20	OP69414	SX2491

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	14%	27%	14-67%
4165-62-2	Phenol-d5	8% [c]	16%	10-50%
118-79-6	2,4,6-Tribromophenol	83%	89%	33-118%
4165-60-0	Nitrobenzene-d5	74%	83%	42-108%
321-60-8	2-Fluorobiphenyl	75%	90%	40-106%
1718-51-0	Terphenyl-d14	88%	83%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-2 (032218)
Lab Sample ID: FA52713-2 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01832.D	1	03/29/18 14:05	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	58% [a]		42-108%
321-60-8	2-Fluorobiphenyl	52% [a]		40-106%
1718-51-0	Terphenyl-d14	63% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-2 (032218)		
Lab Sample ID:	FA52713-2	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-3 (032218)		
Lab Sample ID:	FA52713-3	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0990124.D	1	03/30/18 02:17	SP	n/a	n/a	VJ5855
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (032218)		
Lab Sample ID:	FA52713-3	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059592.D	1	03/29/18 15:51	MV	03/28/18 10:00	OP69369	SX2489
Run #2 [b]	X059639.D	1	04/02/18 18:34	MV	03/30/18 14:20	OP69414	SX2491

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%	35%	14-67%
4165-62-2	Phenol-d5	9% [c]	23%	10-50%
118-79-6	2,4,6-Tribromophenol	82%	85%	33-118%
4165-60-0	Nitrobenzene-d5	67%	74%	42-108%
321-60-8	2-Fluorobiphenyl	70%	76%	40-106%
1718-51-0	Terphenyl-d14	85%	79%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OW-3 (032218)
Lab Sample ID: FA52713-3 **Date Sampled:** 03/22/18
Matrix: AQ - Ground Water **Date Received:** 03/23/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01833.D	1	03/29/18 14:29	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	52% [a]		42-108%
321-60-8	2-Fluorobiphenyl	54% [a]		40-106%
1718-51-0	Terphenyl-d14	59% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	OW-3 (032218)		
Lab Sample ID:	FA52713-3	**Date Sampled:**	03/22/18
Matrix:	AQ - Ground Water	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Report of Analysis

Client Sample ID:	OW-3 (032218)		
Lab Sample ID:	FA52713-3F	**Date Sampled:**	03/22/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/23/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	03/29/18	03/29/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14782
(2) Prep QC Batch: MP33515

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52713

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION
Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis IN
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
☐ 1 Day Rush
☐ 2 Day Rush
☐ 3 Day Rush
☐ Standard 6-13 Days
Specify # Days
☒ Standard 14 Days
☐ Other

Deliverables:
☒ CSXT Standard (Level II)
☐ Level III
☐ Level IV
☐ Other Deliv:
☐ EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other
Note ➡ Pres. Code

Matrix Codes: SO = Soil; GW = Groundwater; WW = Waste Water; SW = Surface Water; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total metals (as Pb) 6010	Dissolved Metals 6010	COMMENTS	LAB USE
OW-1 (032218) 1	7	3/22/18	1425	RJW	N	Grab		X	X	X	X		
OW-2 (032218) 2	6	3/22/18	1245	RJW	N	Grab		X	X	X			
OW-3 (032218) 3	7	3/22/18	1155	RJW	N	Grab		X	X	X	X		
TB-1 (032218)	1	3/22/18											

Relinquished By: Kelly White / Arcadis	Date Time: 3/22/18 / 1600	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See Table for off site cocs - Dissolved metals - lab filter + preserve (1L Amber)	
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time: 03/23/18 915	Lab Remarks: 3.6	LAB USE: ☐ Yes ☐ No Custody Intact	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52713: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L	Closure Limits mg/L	mg/L Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	X	0.73	0.071	**Note 1**
Acenaphthylene	X	31	9.12	**Note 1**
Anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)anthracene	X	0.01	0.0002	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	***	***	**Note 1**
Benzo(g,h,i)perylene	X	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	X	0.14	0.043	**Note 1**
Carbazole	X	0.392	0.0002	**Note 1**
Chrysene	X	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	X	0.2	0.015	**Note 1**
Dibeznofuran	X	0.818	0.243	**Note 1**
Fluoranthene	X	4.09	1.22	**Note 1**
Fluorene	X	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	X	0.41	0.031	**Note 1**
2-Methlynaphthalene	X	4.09	1.22	**Note 1**
Naphthalene	X	0.310	0.023	**Note 1**
Phenanthrene	X	3.07	0.912	**Note 1**
Pyrene	X			
BTEX		0.099	0.005	**0.005**
Benzene	X	10.2	0.7	**0.7**
Toluene	X	20.4	1	**1**
Ethylbenzene	X	204	10	**1**
Exylenes	X			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	X	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	0.05	0.001	**Note 1**
Pentachlorophenol	X	0.31	0.11	**Note 1**
2,4-Dichlorophenol	X	12	3.65	**Note 1**
Phenol	X	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	X	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	**0.005**
Arsenic	X	0.015	0.015	**0.005**
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52713: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52713 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/23/2018 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826063310003281100780208960070

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/23/2018 9:15:00 AM Reviewer: _____ Date: _____

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52806

Sampling Date: 03/26/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 24

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA52806

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52806-1	03/26/18	15:55	RW	03/27/18	AQ	Ground Water	MW-50A (032618)
FA52806-2	03/26/18	16:35	RW	03/27/18	AQ	Ground Water	MW-50B (032618)
FA52806-3	03/26/18	13:40	RW	03/27/18	AQ	Ground Water	MW-P2 (032618)
FA52806-3F	03/26/18	13:40	RW	03/27/18	AQ	Groundwater Filtered	MW-P2 (032618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52806

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/9/2018 2:44:40 PM

3 Sample(s) were collected on 03/26/2018 and were received at SGS North America Inc - Orlando on 03/27/2018 properly preserved, at 3.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52806. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E282

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52914-12MS, FA52914-12MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69369

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52712-2MS, FA52712-2MSD were used as the QC samples indicated.

Sample(s) FA52806-2 have surrogates outside control limits.

FA52806-2: Confirmation run for surrogate recoveries.

FA52806-2 for Phenol-d5: Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

Matrix: AQ **Batch ID:** OP69414

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52829-1MS, FA52829-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52807-2MS, FA52807-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

OP69370-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52806-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52806-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52806-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52806-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52806-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52806-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52806-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52806-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69415

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52912-1MS, FA52912-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene, Chrysene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP69415-MSD have surrogates outside control limits.

OP69415-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52806-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52806-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52806-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52806-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33555

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52778-11DUP, FA52778-11MS, FA52778-11MSD, FA52778-11PS, FA52778-11SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33555-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33555-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52806
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52806-1	**MW-50A (032618)**					
No hits reported in this sample.						
FA52806-2	**MW-50B (032618)**					
No hits reported in this sample.						
FA52806-3	**MW-P2 (032618)**					
No hits reported in this sample.						
FA52806-3F	**MW-P2 (032618)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-50A (032618)		
Lab Sample ID:	FA52806-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6987.D	1	03/30/18 21:42	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (032618)		
Lab Sample ID:	FA52806-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059664.D	1	04/03/18 16:13	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50A (032618)
Lab Sample ID: FA52806-1 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02010.D	1	04/06/18 14:13	FS	03/30/18 14:20	OP69415	S7G88
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	81% [a]		33-118%
4165-60-0	Nitrobenzene-d5	73% [a]		42-108%
321-60-8	2-Fluorobiphenyl	72% [a]		40-106%
1718-51-0	Terphenyl-d14	73% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50A (032618)		
Lab Sample ID:	FA52806-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-50B (032618)
Lab Sample ID: FA52806-2 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6988.D	1	03/30/18 22:06	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (032618)		
Lab Sample ID:	FA52806-2	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059594.D	1	03/29/18 16:43	MV	03/28/18 10:00	OP69369	SX2489
Run #2 [a]	X059662.D	1	04/03/18 15:21	MV	03/28/18 13:00	OP69369	SX2492

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	14%	14%	14-67%
4165-62-2	Phenol-d5	8% [b]	8%	10-50%
118-79-6	2,4,6-Tribromophenol	92%	100%	33-118%
4165-60-0	Nitrobenzene-d5	66%	69%	42-108%
321-60-8	2-Fluorobiphenyl	75%	78%	40-106%
1718-51-0	Terphenyl-d14	90%	97%	39-121%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-50B (032618)
Lab Sample ID: FA52806-2 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01835.D	1	03/29/18 15:16	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	51% [a]		42-108%
321-60-8	2-Fluorobiphenyl	51% [a]		40-106%
1718-51-0	Terphenyl-d14	65% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50B (032618)		
Lab Sample ID:	FA52806-2	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-P2 (032618)
Lab Sample ID: FA52806-3 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6989.D	1	03/30/18 22:31	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (032618)		
Lab Sample ID:	FA52806-3	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059665.D	1	04/03/18 16:39	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		14-67%
4165-62-2	Phenol-d5	17%		10-50%
118-79-6	2,4,6-Tribromophenol	103%		33-118%
4165-60-0	Nitrobenzene-d5	86%		42-108%
321-60-8	2-Fluorobiphenyl	88%		40-106%
1718-51-0	Terphenyl-d14	83%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-P2 (032618)
Lab Sample ID: FA52806-3 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01836.D	1	03/29/18 15:40	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	ND	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	ND	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00094	mg/l	
86-73-7	Fluorene	ND	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00094	mg/l	
91-20-3	Naphthalene	ND	0.00094	mg/l	
85-01-8	Phenanthrene	ND	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [a]		33-118%
4165-60-0	Nitrobenzene-d5	53% [a]		42-108%
321-60-8	2-Fluorobiphenyl	49% [a]		40-106%
1718-51-0	Terphenyl-d14	56% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P2 (032618)		
Lab Sample ID:	FA52806-3	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P2 (032618)		
Lab Sample ID:	FA52806-3F	**Date Sampled:**	03/26/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52806

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FedEx
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 941582 9	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN Creosote	Proj. City: Bloomington	Address: 150 W. Market St. 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6800 Fax: 317-231-6914

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 Low	Total Metals	Dissolved Metals	COMMENTS	LAB USE
1	MW-50A (032618)	6	3/26/18	1555	RJW	N	Grab		X	X	X			
2	MW-50B (032618)	6	3/26/18	1635	RJW	N	Grab		X	X	X			
3	MW-PZ (032618)	7	3/26/18	1340	RJW	N	Grab		X	X	X	X		
	TB-1 (032618)	1	3/26/18											

Relinquished By: Ritu White/Arcadis	Date Time: 3/26/18 1700	Received By: FX	Date Time:	Comments & Special Analytical Requirements: See Table for off site COCs – Dissolved metals – lab filter + preserve (1L Amber)
Relinquished By: FX	Date Time:	Received By:	Date Time: 03-27-18	
Relinquished By:	Date Time:	Received By:	Date Time: 09:30	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.6 C°

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L	Closure Limits mg/L	mg/L Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	**Note 1**
Acenaphthene	x	0.73	0.071	**Note 1**
Acenaphthylene	x	31	9.12	**Note 1**
Anthracene	x	0.01	0.0001	**Note 1**
Benzo(a)anthracene	x	0.01	0.0002	**Note 1**
Benzo(a)pyrene	x	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	x	***	***	**Note 1**
Benzo(g,h,i)perylene	x	0.039	0.0002	**Note 1**
Benzo(k)fluoranthene	x	0.14	0.043	**Note 1**
Carbazole	x	0.392	0.0002	**Note 1**
Chrysene	x	0.01	0.0003	**Note 1**
Dibenzo(a,h)anthracene	x	0.2	0.015	**Note 1**
Dibeznofuran	x	0.818	0.243	**Note 1**
Fluoranthene	x	4.09	1.22	**Note 1**
Fluorene	x	0.01	0.0	**Note 1**
Indeno(123-c,d)pyrene	x	0.41	0.031	**Note 1**
2-Methlynaphthalene	x	4.09	1.22	**Note 1**
Naphthalene	x	0.310	0.023	**Note 1**
Phenanthrene	x	3.07	0.912	**Note 1**
Pyrene	x			**Note 1**
BTEX		0.099	0.005	**0.005**
Benzene	x	10.2	0.7	**0.7**
Toluene	x	20.4	1	**1**
Ethylbenzene	x	204	10	**1**
Exylenes	x			
Phenolic Compounds		2	0.73	**Note 1**
2,4-Dimethylphenol	x	5.11	1.52	**Note 1**
2-Methylphenol (o-cresol)	x	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	x	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	x	0.05	0.001	**Note 1**
Pentachlorophenol	x	0.31	0.11	**Note 1**
2,4-Dichlorophenol	x	12	3.65	**Note 1**
Phenol	x	0.26	0.01	**Note 1**
2,4,6-Trichlorophenol	x			
Phthalates		20	0.1	**Note 1**
Butylbenzylphthalate	x	0.204	0.006	**Note 1**
Bis(2-ethylhexyl)phthalate	x			
Metals		0.05	0.05	**0.005**
Arsenic	x	0.015	0.015	**0.005**
Lead	x			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52806: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52806 **Client:** ARCADIS **Project:** 9415 829

Date / Time Received: 3/27/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 1015923863910003281100780256547740

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑
	W	**S**	**N/A**
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 1 Amber Bottle received instead of 2 for Extractions (BROKEN) SAMPLE #2

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/27/2018 9:30:00 AM Reviewer: SP Date: 3/27/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52807

Sampling Date: 03/26/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52807

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52807-1	03/26/18	10:40	RW	03/27/18	AQ	Ground Water	MW-12S (032618)
FA52807-1F	03/26/18	10:40	RW	03/27/18	AQ	Groundwater Filtered	MW-12S (032618)
FA52807-2	03/26/18	13:00	RW	03/27/18	AQ	Ground Water	MW-29A (032618)
FA52807-3	03/26/18	12:25	RW	03/27/18	AQ	Ground Water	MW-16S (032618)
FA52807-3F	03/26/18	12:25	RW	03/27/18	AQ	Groundwater Filtered	MW-16S (032618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52807

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/6/2018 1:14:47 PM

3 Sample(s) were collected on 03/26/2018 and were received at SGS North America Inc - Orlando on 03/27/2018 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52807. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E282

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52914-12MS, FA52914-12MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69369

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52712-2MS, FA52712-2MSD were used as the QC samples indicated.

Sample(s) FA52807-2 have surrogates outside control limits.

FA52807-2: Confirmation run for surrogate recoveries.

FA52807-2 for Phenol-d5: Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

Matrix: AQ **Batch ID:** OP69414

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52829-1MS, FA52829-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52807-2MS, FA52807-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Acenaphthylene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

OP69370-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69370-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52807-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52807-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52807-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52807-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52807-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52807-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52807-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69370

FA52807-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52807-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52807-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33555

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52778-11DUP, FA52778-11MS, FA52778-11MSD, FA52778-11PS, FA52778-11SDLwere used as the QC samples for metals.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP33555-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33555-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52807
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52807-1	**MW-12S (032618)**					
No hits reported in this sample.						
FA52807-1F	**MW-12S (032618)**					
No hits reported in this sample.						
FA52807-2	**MW-29A (032618)**					
Carbazole		0.0074	0.0047		mg/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		0.0140	0.0047		mg/l	SW846 8270D
Acenaphthene		0.0039	0.00094		mg/l	SW846 8270D BY SIM
Anthracene		0.0010	0.00094		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0010	0.00094		mg/l	SW846 8270D BY SIM
Fluorene		0.0040	0.00094		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0020	0.00094		mg/l	SW846 8270D BY SIM
Naphthalene		0.0111	0.00094		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0041	0.00094		mg/l	SW846 8270D BY SIM
FA52807-3	**MW-16S (032618)**					
Ethylbenzene		0.0143	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0264	0.015		mg/l	SW846 8260B
Carbazole		0.0315	0.0048		mg/l	SW846 8270D
Dibenzofuran		0.0699	0.0048		mg/l	SW846 8270D
Pentachlorophenol		0.0013	0.00095		mg/l	SW846 8270D BY SIM
Acenaphthene		0.189	0.0095		mg/l	SW846 8270D BY SIM
Acenaphthylene		0.0021	0.00095		mg/l	SW846 8270D BY SIM
Anthracene		0.0039	0.00095		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0094	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0881	0.0095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0043	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.344	0.0095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0129	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0037	0.00095		mg/l	SW846 8270D BY SIM
FA52807-3F	**MW-16S (032618)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-12S (032618)		
Lab Sample ID:	FA52807-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6990.D	1	03/30/18 22:55	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-12S (032618)
Lab Sample ID: FA52807-1 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059666.D	1	04/03/18 17:04	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		14-67%
4165-62-2	Phenol-d5	20%		10-50%
118-79-6	2,4,6-Tribromophenol	102%		33-118%
4165-60-0	Nitrobenzene-d5	88%		42-108%
321-60-8	2-Fluorobiphenyl	90%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-12S (032618)
Lab Sample ID: FA52807-1 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01837.D	1	03/29/18 16:04	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	64% [a]		33-118%
4165-60-0	Nitrobenzene-d5	55% [a]		42-108%
321-60-8	2-Fluorobiphenyl	57% [a]		40-106%
1718-51-0	Terphenyl-d14	56% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-12S (032618)
Lab Sample ID: FA52807-1
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/26/18
Date Received: 03/27/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.020 U	0.050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12S (032618)		
Lab Sample ID:	FA52807-1F	**Date Sampled:**	03/26/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-29A (032618)
Lab Sample ID: FA52807-2 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6991.D	1	03/30/18 23:19	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-29A (032618)
Lab Sample ID: FA52807-2 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059597.D	1	03/29/18 18:00	MV	03/28/18 10:00	OP69369	SX2489
Run #2 [a]	X059663.D	1	04/03/18 15:47	MV	03/28/18 13:00	OP69369	SX2492

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	0.0074	0.0047	mg/l	
132-64-9	Dibenzofuran	ND	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0140	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%	16%	14-67%
4165-62-2	Phenol-d5	9% [b]	9%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	91%	33-118%
4165-60-0	Nitrobenzene-d5	65%	66%	42-108%
321-60-8	2-Fluorobiphenyl	69%	70%	40-106%
1718-51-0	Terphenyl-d14	82%	83%	39-121%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-29A (032618)
Lab Sample ID: FA52807-2 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01838.D	1	03/29/18 16:28	FS	03/28/18 10:00	OP69370	S7G82
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00094	mg/l	
83-32-9	Acenaphthene	0.0039	0.00094	mg/l	
208-96-8	Acenaphthylene	ND	0.00094	mg/l	
120-12-7	Anthracene	0.0010	0.00094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0010	0.00094	mg/l	
86-73-7	Fluorene	0.0040	0.00094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0020	0.00094	mg/l	
91-20-3	Naphthalene	0.0111	0.00094	mg/l	
85-01-8	Phenanthrene	0.0041	0.00094	mg/l	
129-00-0	Pyrene	ND	0.00094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67% [a]		33-118%
4165-60-0	Nitrobenzene-d5	49% [a]		42-108%
321-60-8	2-Fluorobiphenyl	47% [a]		40-106%
1718-51-0	Terphenyl-d14	55% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-29A (032618)
Lab Sample ID: FA52807-2
Matrix: AQ - Ground Water
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/26/18
Date Received: 03/27/18
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-16S (032618)
Lab Sample ID: FA52807-3 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E6992.D	1	03/30/18 23:44	SO	n/a	n/a	V5E282
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0143	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0264	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-16S (032618)
Lab Sample ID: FA52807-3 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059598.D	1	03/29/18 18:25	MV	03/28/18 10:00	OP69369	SX2489
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0315	0.0048	mg/l	
132-64-9	Dibenzofuran	0.0699	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	89%		33-118%
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-16S (032618)
Lab Sample ID: FA52807-3 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01841.D	1	03/29/18 17:40	FS	03/28/18 10:00	OP69370	S7G82
Run #2	7G01872.D	10	03/30/18 18:29	FS	03/28/18 10:00	OP69370	S7G83

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	0.0013	0.00095	mg/l	
83-32-9	Acenaphthene	0.189 [a]	0.0095	mg/l	
208-96-8	Acenaphthylene	0.0021	0.00095	mg/l	
120-12-7	Anthracene	0.0039	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0094	0.00095	mg/l	
86-73-7	Fluorene	0.0881 [a]	0.0095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0043	0.00095	mg/l	
91-20-3	Naphthalene	0.344 [a]	0.0095	mg/l	
85-01-8	Phenanthrene	0.0129	0.00095	mg/l	
129-00-0	Pyrene	0.0037	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62% [b]	76% [b]	33-118%
4165-60-0	Nitrobenzene-d5	54% [b]	67% [b]	42-108%
321-60-8	2-Fluorobiphenyl	50% [b]	74% [b]	40-106%
1718-51-0	Terphenyl-d14	58% [b]	82% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16S (032618)		
Lab Sample ID:	FA52807-3	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-16S (032618)
Lab Sample ID: FA52807-3F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/26/18
Date Received: 03/27/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/05/18	04/05/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14802
(2) Prep QC Batch: MP33555

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 52807

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FedEx
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN creosote	Proj. City: Bloomington	Address: 150 W. Market St. 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: ____
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION								METHODS FOR ANALYSIS										COMMENTS	LAB USE
Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270	Total Metals 6010	Dissolved Metals 6010								
TB-1 (032618)	1	3/26/18																	
1 MW-12S (032618)	7	3/26/18	1040	RJW	N	Grab		X	X	X	X								
2 MW-29A (032618)	6	3/26/18	1300	RJW	N	Grab		X	X	X									
3 MW-16S (032618)	7	3/26/18	1225	RJW	N	Grab		X	X	X	X								

	Date Time:	Received By:	Date Time:	Comments & Special Analytical Requirements:
Relinquished By: Arcadis	3/26/18 1710	FX	09:30	- See table for off site COCs
Relinquished By: FX	Date Time:	Received By: J. Corne	Date Time: 03-27-18	- Dissolved Metals - lab filter & preserve (IL Analysis)
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # / LAB Log Number #

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

3.4

Table 1. Chemicals of Concern

	Yes	Closure Limits mg/L	Closure Limits mg/L	mg/L Laboratory Run Detection Limit
Units		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	x	6.13	1.52	Note 1
Acenaphthylene	x	0.73	0.071	Note 1
Anthracene	x	31	9.12	Note 1
Benzo(a)anthracene	x	0.01	0.0001	Note 1
Benzo(a)pyrene	x	0.01	0.0002	Note 1
Benzo(b)fluoranthene	x	0.01	0.0002	Note 1
Benzo(g,h,i)perylene	x	***	***	Note 1
Benzo(k)fluoranthene	x	0.039	0.0002	Note 1
Carbazole	x	0.14	0.043	Note 1
Chrysene	x	0.392	0.0002	Note 1
Dibenzo(a,h)anthracene	x	0.01	0.0003	Note 1
Dibenzofuran	x	0.2	0.015	Note 1
Fluoranthene	x	0.818	0.243	Note 1
Fluorene	x	4.09	1.22	Note 1
Indeno(123-c,d)pyrene	x	0.01	0.0	Note 1
2-Methlynaphthalene	x	0.41	0.031	Note 1
Naphthalene	x	4.09	1.22	Note 1
Phenanthrene	x	0.310	0.023	Note 1
Pyrene	x	3.07	0.912	Note 1
BTEX				
Benzene	x	0.099	0.005	0.005
Toluene	x	10.2	0.7	0.7
Ethylbenzenie	x	20.4	1	1
Exylenes	x	204	10	1
Phenolic Compounds				
2,4-Dimethylphenol	x	2	0.73	Note 1
2-Methylphenol (o-cresol)	x	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	x	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	x	5.11	1.52	Note 1
Pentachlorophenol	x	0.05	0.001	Note 1
2,4-Dichlorophenol	x	0.31	0.11	Note 1
Phenol	x	12	3.65	Note 1
2,4,6-Trichlorophenol	x	0.26	0.01	Note 1
Phthalates				
Butylbenzylphthalate	x	20	0.1	Note 1
Bis(2-ethylhexyl)phthalate	x	0.204	0.006	Note 1
Metals				
Arsenic	x	0.05	0.05	0.005
Lead	x	0.015	0.015	0.005

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

5.1

5

FA52807: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52807 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/27/2018 9:30:00 AM **Delivery Method:** FX **Airbill #'s:** 1015923863910003281100780256547740

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/27/2018 9:30:00 AM Reviewer: TS Date: 4/6/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52829

Sampling Date: 03/26/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 15

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52829

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52829-1	03/26/18	14:40	RW	03/27/18	AQ	Ground Water	MW-44A (032618)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52829

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN **Report Date:** 4/9/2018 1:20:52 PM

1 Sample(s) were collected on 03/26/2018 and were received at SGS North America Inc - Orlando on 03/27/2018 properly preserved, at 3.4 Deg. C and intact. These Samples received an SGS Orlando job number of FA52829. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1961

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52851-11MS, FA52851-11MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69414

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52829-1MS, FA52829-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69415

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52912-1MS, FA52912-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene, Chrysene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP69415-MSD have surrogates outside control limits.

FA52829-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52829-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52829-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52829-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33562

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52810-1DUP, FA52810-1MS, FA52810-1MSD, FA52810-1SDL were used as the QC samples for metals.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52829
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/26/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52829-1	**MW-44A (032618)**					
Acenaphthene		0.0020	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0013	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0021	0.00095		mg/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-44A (032618)		
Lab Sample ID:	FA52829-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52224.D	1	04/02/18 11:22	SP	n/a	n/a	VO1961
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	97%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44A (032618)
Lab Sample ID: FA52829-1 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059640.D	1	04/02/18 19:00	MV	03/30/18 14:20	OP69414	SX2491
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	85%		33-118%
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44A (032618)		
Lab Sample ID:	FA52829-1	**Date Sampled:**	03/26/18
Matrix:	AQ - Ground Water	**Date Received:**	03/27/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01900.D	1	04/02/18 19:41	FS	03/30/18 14:20	OP69415	S7G84
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0020	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	0.0013	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0021	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [a]		33-118%
4165-60-0	Nitrobenzene-d5	66% [a]		42-108%
321-60-8	2-Fluorobiphenyl	65% [a]		40-106%
1718-51-0	Terphenyl-d14	89% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-44A (032618)
Lab Sample ID: FA52829-1 **Date Sampled:** 03/26/18
Matrix: AQ - Ground Water **Date Received:** 03/27/18
Percent Solids: n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14807
(2) Prep QC Batch: MP33562

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52829

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: FedEx
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 94 15829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000672.0077.00001
CSXT Project Name: IN Creosote	Proj. City: Bloomington	Address: 150 W. Market St. 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: ____
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note ➡ Pres. Code

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270	Total Metals 6010	Dissolved Metals 6010	COMMENTS	LAB USE
TB-1 (032618)	1	3/26/18											
MW-44A (032618)	6	3/26/18	1440	KJW	N	Grab		X	X	X			(1)

Relinquished By: Ruby White/ARCADIS	Date Time: 3/26/18 1720	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See Table for offsite COCs -Dissolved metals- lab filter + preserve (Chamber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time: 03/27/18 930	Lab Remarks: 3.4	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

5.1 5

FA52829: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L	Closure Limits mg/L	mg/L Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	Note 1
Acenaphthene	X	0.73	0.071	Note 1
Acenaphthylene	X	31	9.12	Note 1
Anthracene	X	0.01	0.0001	Note 1
Benzo(a)anthracene	X	0.01	0.0002	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	***	***	Note 1
Benzo(g,h,i)perylene	X	0.039	0.0002	Note 1
Benzo(k)fluoranthene	X	0.14	0.043	Note 1
Carbazole	X	0.392	0.0002	Note 1
Chrysene	X	0.01	0.0003	Note 1
Dibenzo(a,h)anthracene	X	0.2	0.015	Note 1
Dibenzofuran	X	0.818	0.243	Note 1
Fluoranthene	X	4.09	1.22	Note 1
Fluorene	X	0.01	0.0	Note 1
Indeno(123-c,d)pyrene	X	0.41	0.031	Note 1
2-Methylnaphthalene	X	4.09	1.22	Note 1
Naphthalene	X	0.310	0.023	Note 1
Phenanthrene	X	3.07	0.912	Note 1
Pyrene				
BTEX	X	0.099	0.005	0.005
Benzene	X	10.2	0.7	0.7
Toluene	X	20.4	1	1
Ethylbenzene	X	204	10	1
Exylenes				
Phenolic Compounds	X	2	0.73	Note 1
2,4-Dimethylphenol	X	5.11	1.52	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	0.05	0.001	Note 1
Pentachlorophenol	X	0.31	0.11	Note 1
2,4-Dichlorophenol	X	12	3.65	Note 1
Phenol	X	0.26	0.01	Note 1
2,4,6-Trichlorophenol				
Phthalates	X	20	0.1	Note 1
Butylbenzylphthalate	X	0.204	0.006	Note 1
Bis(2-ethylhexyl)phthalate				
Metals	X	0.05	0.05	0.005
Arsenic	X	0.015	0.015	0.005
Lead				

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52829: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52829 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 3/27/2018 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002239563910003281100813015085714

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 3/27/2018 9:30:00 AM Reviewer: SP Date: 3/27/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52911

Sampling Date: 03/28/18



Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 20

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52911

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
FA52911-1	03/28/18	10:40	RW	03/29/18	AQ	Ground Water	MW-36C (032818)
FA52911-2	03/28/18	11:40	RW	03/29/18	AQ	Ground Water	MW-36A (032818)
FA52911-2F	03/28/18	11:40	RW	03/29/18	AQ	Groundwater Filtered	MW-36A (032818)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52911

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/10/2018 1:10:16

2 Sample(s) were collected on 03/28/2018 and were received at SGS North America Inc - Orlando on 03/29/2018 properly preserved, at 2.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA52911. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E283

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA52947-1MS, FA52947-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69414

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52829-1MS, FA52829-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69415

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52912-1MS, FA52912-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene, Chrysene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) FA52911-1, OP69415-MSD have surrogates outside control limits.

OP69415-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52911-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52911-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52911-1: Dilution required due to matrix interference.

FA52911-1: Dilution required due to matrix interference.

FA52911-1 for Terphenyl-d14: Outside control limits due to dilution.

FA52911-1 for Nitrobenzene-d5: Outside control limits due to dilution.

FA52911-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52911-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52911-1 for 2,4,6-Tribromophenol: Outside control limits due to dilution.

FA52911-1 for 2-Fluorobiphenyl: Outside control limits due to dilution.

FA52911-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52911-2: Dilution required due to matrix interference.

FA52911-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52911-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52911-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33564

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52886-1DUP, FA52886-1MS, FA52886-1MSD, FA52886-1PS, FA52886-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33564-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33564-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52911
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/28/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52911-1	**MW-36C (032818)**					
Benzene		0.0175	0.0050		mg/l	SW846 8260B
Toluene		0.0750	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0434	0.0050		mg/l	SW846 8260B
Xylene (total)		0.163	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol		0.0370	0.0048		mg/l	SW846 8270D
2-Methylphenol		0.0063	0.0048		mg/l	SW846 8270D
3&4-Methylphenol		0.0113	0.0048		mg/l	SW846 8270D
Phenol		0.0054	0.0048		mg/l	SW846 8270D
Carbazole		0.179	0.048		mg/l	SW846 8270D
Dibenzofuran		0.160	0.048		mg/l	SW846 8270D
Acenaphthene [a]		0.274	0.019		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene [a]		0.0066	0.0038		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene [a]		0.0038	0.0038		mg/l	SW846 8270D BY SIM
Chrysene [a]		0.0053	0.0038		mg/l	SW846 8270D BY SIM
Fluoranthene [a]		0.0474	0.019		mg/l	SW846 8270D BY SIM
Fluorene [a]		0.143	0.019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene [a]		0.180	0.019		mg/l	SW846 8270D BY SIM
Naphthalene [a]		1.35	0.076		mg/l	SW846 8270D BY SIM
Phenanthrene [a]		0.160	0.019		mg/l	SW846 8270D BY SIM
Pyrene [a]		0.0313	0.019		mg/l	SW846 8270D BY SIM
FA52911-2	**MW-36A (032818)**					
Toluene		0.0103	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0120	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0260	0.015		mg/l	SW846 8260B
Carbazole		0.0161	0.0047		mg/l	SW846 8270D
Dibenzofuran		0.0184	0.0047		mg/l	SW846 8270D
Acenaphthene [a]		0.0539	0.0094		mg/l	SW846 8270D BY SIM
Fluorene [a]		0.0183	0.0094		mg/l	SW846 8270D BY SIM
Naphthalene [a]		0.270	0.0094		mg/l	SW846 8270D BY SIM
FA52911-2F	**MW-36A (032818)**					

No hits reported in this sample.

(a) Dilution required due to matrix interference.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-36C (032818)
Lab Sample ID: FA52911-1 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E7016.D	1	03/31/18 11:50	MM	n/a	n/a	V5E283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0175	0.0050	mg/l	
108-88-3	Toluene	0.0750	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0434	0.0050	mg/l	
1330-20-7	Xylene (total)	0.163	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (032818)
Lab Sample ID:	FA52911-1
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/28/18
Date Received:	03/29/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059695.D	1	04/04/18 15:31	MV	03/30/18 14:20	OP69414	SX2494
Run #2	X059685.D	10	04/04/18 00:58	MV	03/30/18 14:20	OP69414	SX2493

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	0.0370	0.0048	mg/l	
95-48-7	2-Methylphenol	0.0063	0.0048	mg/l	
	3&4-Methylphenol	0.0113	0.0048	mg/l	
108-95-2	Phenol	0.0054	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.179 [a]	0.048	mg/l	
132-64-9	Dibenzofuran	0.160 [a]	0.048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%	23%	14-67%
4165-62-2	Phenol-d5	16%	15%	10-50%
118-79-6	2,4,6-Tribromophenol	80%	75%	33-118%
4165-60-0	Nitrobenzene-d5	71%	69%	42-108%
321-60-8	2-Fluorobiphenyl	72%	75%	40-106%
1718-51-0	Terphenyl-d14	78%	79%	39-121%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (032818)		
Lab Sample ID:	FA52911-1	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	8H02330.D	20	04/04/18 14:36	FS	03/30/18 14:20	OP69415	S8H90
Run #2 [a]	8H02332.D	80	04/04/18 15:23	FS	03/30/18 14:20	OP69415	S8H90

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.019	mg/l	
83-32-9	Acenaphthene	0.274	0.019	mg/l	
208-96-8	Acenaphthylene	ND	0.019	mg/l	
120-12-7	Anthracene	ND	0.019	mg/l	
56-55-3	Benzo(a)anthracene	0.0066	0.0038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/l	
207-08-9	Benzo(k)fluoranthene	0.0038	0.0038	mg/l	
218-01-9	Chrysene	0.0053	0.0038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/l	
206-44-0	Fluoranthene	0.0474	0.019	mg/l	
86-73-7	Fluorene	0.143	0.019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/l	
91-57-6	2-Methylnaphthalene	0.180	0.019	mg/l	
91-20-3	Naphthalene	1.35 [b]	0.076	mg/l	
85-01-8	Phenanthrene	0.160	0.019	mg/l	
129-00-0	Pyrene	0.0313	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	0% [c]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	0% [c]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	0% [c]	0% [c]	39-121%

(a) Dilution required due to matrix interference.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36C (032818)		
Lab Sample ID:	FA52911-1	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-36A (032818)
Lab Sample ID:	FA52911-2
Matrix:	AQ - Ground Water
Method:	SW846 8260B
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/28/18
Date Received:	03/29/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E7017.D	1	03/31/18 12:14	MM	n/a	n/a	V5E283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	0.0103	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0120	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0260	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (032818)
Lab Sample ID:	FA52911-2
Matrix:	AQ - Ground Water
Method:	SW846 8270D SW846 3510C
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Date Sampled:	03/28/18
Date Received:	03/29/18
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059667.D	1	04/03/18 17:30	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0047	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0047	mg/l	
95-48-7	2-Methylphenol	ND	0.0047	mg/l	
	3&4-Methylphenol	ND	0.0047	mg/l	
108-95-2	Phenol	ND	0.0047	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0047	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0047	mg/l	
86-74-8	Carbazole	0.0161	0.0047	mg/l	
132-64-9	Dibenzofuran	0.0184	0.0047	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0047	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	19%		10-50%
118-79-6	2,4,6-Tribromophenol	96%		33-118%
4165-60-0	Nitrobenzene-d5	74%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	91%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-36A (032818)
Lab Sample ID: FA52911-2 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	8H02331.D	10	04/04/18 14:59	FS	03/30/18 14:20	OP69415	S8H90
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0094	mg/l	
83-32-9	Acenaphthene	0.0539	0.0094	mg/l	
208-96-8	Acenaphthylene	ND	0.0094	mg/l	
120-12-7	Anthracene	ND	0.0094	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0019	mg/l	
218-01-9	Chrysene	ND	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0019	mg/l	
206-44-0	Fluoranthene	ND	0.0094	mg/l	
86-73-7	Fluorene	0.0183	0.0094	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0094	mg/l	
91-20-3	Naphthalene	0.270	0.0094	mg/l	
85-01-8	Phenanthrene	ND	0.0094	mg/l	
129-00-0	Pyrene	ND	0.0094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	43% [b]		33-118%
4165-60-0	Nitrobenzene-d5	57% [b]		42-108%
321-60-8	2-Fluorobiphenyl	74% [b]		40-106%
1718-51-0	Terphenyl-d14	89% [b]		39-121%

(a) Dilution required due to matrix interference.
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-36A (032818)		
Lab Sample ID:	FA52911-2	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-36A (032818)
Lab Sample ID: FA52911-2F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/28/18
Date Received: 03/29/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA 52911

COC # 1 of 1

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION

Accutest
4405 Vineland Rd., Suite C-15
Orlando, FL 32811
Phone: 407-425-6700
Fax: 407-425-0707

SHIPMENT INFORMATION

Shipment Method: FedEx
Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 94/5829
CSXT Project Name: IN creosote
CSXT Contact:
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV53216

CONSULTANT INFORMATION

Company: Arcadis
Address: 150 W. Market St. 728
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6600 Fax: 317-231

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days — Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	METHODS FOR ANALYSIS: BTEX 8260	SVOCs 8270 (SIM cPAH only)	Total Metals 6010 (As Pb)	Dissolved Metals 6010	COMMENTS	LAB USE
	TB-1 (032820 18)	1	3/28/18											
1	MW-36C (032818)	6	3/28/18	1040	RJW	N	Grab		X	X	X			
2	MW-36A (032818)	7	3/28/18	1140	RJW	N	Grab		X	X	X	X		

Relinquished By: Ruby White / Arcadis	Date Time: 3/28/18 1600	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - See Table for off-site COCs - Dissolved Metals - lab filter and preserve	
Relinquished By: FX	Date Time:	Received By: J. Rempel	Date Time: 03-29-18 10:00		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal #	LAB Log Number

ORIGINAL - RETURN TO LABORATORY WITH SAMPLES — Rev. 5/21/02 — INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

2.6

5.1 5

FA52911: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern	Yes	Closure Limits		mg/L
Units		mg/L	mg/L	Laboratory Run Detection Limit
		Industrial	Residential	
Polycyclic Aromatic Hydrocarbons		6.13	1.82	Note 1
Acenaphthene	X	0.73	0.071	Note 1
Acenaphthylene	X	31	9.12	Note 1
Anthracene	X	0.01	0.0001	Note 1
Benzo(a)anthracene	X	0.01	0.0002	Note 1
Benzo(a)pyrene	X	0.01	0.0002	Note 1
Benzo(b)fluoranthene	X	***	***	Note 1
Benzo(g,h,i)perylene	X	0.039	0.0002	Note 1
Benzo(k)fluoranthene	X	0.14	0.043	Note 1
Carbazole	X	0.392	0.0002	Note 1
Chrysene	X	0.01	0.0003	Note 1
Dibenzo(a,h)anthracene	X	0.2	0.015	Note 1
Dibenzofuran	X	0.818	0.243	Note 1
Fluoranthene	X	4.09	1.22	Note 1
Fluorene	X	0.01	0.0	Note 1
Indeno(123-c,d)pyrene	X	0.41	0.031	Note 1
2-Methlynaphthalene	X	4.09	1.22	Note 1
Naphthalene	X	0.310	0.023	Note 1
Phenanthrene	X	3.07	0.912	Note 1
Pyrene	X			
BTEX		0.099	0.005	0.005
Benzene	X	10.2	0.7	0.7
Toluene	X	20.4	1	1
Ethylbenzene	X	204	10	1
Exylenes	X			
Phenolic Compounds		2	0.73	Note 1
2,4-Dimethylphenol	X	5.11	1.52	Note 1
2-Methylphenol (o-cresol)	X	5.11	1.52	Note 1
3-Methylphenol (m-cresol)	X	5.11	1.52	Note 1
4-Methylphenol (p-cresol)	X	0.05	0.001	Note 1
Pentachlorophenol	X	0.31	0.11	Note 1
2,4-Dichlorophenol	X	12	3.65	Note 1
Phenol	X	0.26	0.01	Note 1
2,4,6-Trichlorophenol	X			
Phthalates		20	0.1	Note 1
Butylbenzylphthalate	X	0.204	0.006	Note 1
Bis(2-ethylhexyl)phthalate	X			
Metals		0.05	0.05	0.005
Arsenic	X	0.015	0.015	0.005
Lead	X			

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA52911: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA52911 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/29/2018 10:00:00 AM **Delivery Method:** FX **Airbill #'s:** 1002866864210003281100780292171292

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 1 Amber Bottle received instead of 2 for sample #1

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/29/2018 10:00:00 A Reviewer: P.H Date: 4/10/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA52912

Sampling Date: 03/28/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 24

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA52912

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA52912-1	03/28/18	12:35	RW	03/29/18	AQ	Ground Water	MW-47A (032818)
FA52912-2	03/28/18	14:25	RW	03/29/18	AQ	Ground Water	MW-56A (032818)
FA52912-2F	03/28/18	14:25	RW	03/29/18	AQ	Groundwater Filtered	MW-56A (032818)
FA52912-3	03/28/18	13:45	RW	03/29/18	AQ	Ground Water	MW-56B (032818)
FA52912-3F	03/28/18	13:45	RW	03/29/18	AQ	Groundwater Filtered	MW-56B (032818)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA52912

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/9/2018 2:43:02 PM

3 Sample(s) were collected on 03/28/2018 and were received at SGS North America Inc - Orlando on 03/29/2018 properly preserved, at 5 Deg. C and intact. These Samples received an SGS Orlando job number of FA52912. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V5E283

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA52947-1MS, FA52947-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69414

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52829-1MS, FA52829-1MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69415

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.

Sample(s) FA52912-1MS, FA52912-1MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene, Chrysene, Pyrene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Sample(s) OP69415-MSD have surrogates outside control limits.

OP69415-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
OP69415-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
OP69415-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69415-BS for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52912-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.
FA52912-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.
FA52912-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52912-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52912-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52912-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52912-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52912-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA52912-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33564

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA52886-1DUP, FA52886-1MS, FA52886-1MSD, FA52886-1PS, FA52886-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33564-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP33564-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA52912
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 03/28/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA52912-1	**MW-47A (032818)**					
Acenaphthene		0.0028	0.00095		mg/l	SW846 8270D BY SIM
Benzo(a)anthracene		0.00035	0.00019		mg/l	SW846 8270D BY SIM
Benzo(a)pyrene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
Benzo(b)fluoranthene		0.00020	0.00019		mg/l	SW846 8270D BY SIM
Benzo(k)fluoranthene		0.00019	0.00019		mg/l	SW846 8270D BY SIM
Chrysene		0.00032	0.00019		mg/l	SW846 8270D BY SIM
Fluoranthene		0.0020	0.00095		mg/l	SW846 8270D BY SIM
Fluorene		0.0022	0.00095		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0012	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0044	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0046	0.00095		mg/l	SW846 8270D BY SIM
Pyrene		0.0014	0.00095		mg/l	SW846 8270D BY SIM
FA52912-2	**MW-56A (032818)**					
Acenaphthene		0.0018	0.00095		mg/l	SW846 8270D BY SIM
Naphthalene		0.0030	0.00095		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0020	0.00095		mg/l	SW846 8270D BY SIM
FA52912-2F	**MW-56A (032818)**					
No hits reported in this sample.						
FA52912-3	**MW-56B (032818)**					
Benzene		0.0484	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0116	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0234	0.015		mg/l	SW846 8260B
Carbazole		0.0261	0.0048		mg/l	SW846 8270D
Acenaphthene		0.0363	0.0019		mg/l	SW846 8270D BY SIM
Anthracene		0.0020	0.0019		mg/l	SW846 8270D BY SIM
Fluorene		0.0048	0.0019		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0219	0.0019		mg/l	SW846 8270D BY SIM
Naphthalene		0.0955	0.0038		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0021	0.0019		mg/l	SW846 8270D BY SIM
FA52912-3F	**MW-56B (032818)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-47A (032818)		
Lab Sample ID:	FA52912-1	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E7018.D	1	03/31/18 12:40	MM	n/a	n/a	V5E283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-47A (032818)
Lab Sample ID: FA52912-1 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059668.D	1	04/03/18 17:56	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	86%		33-118%
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	68%		40-106%
1718-51-0	Terphenyl-d14	84%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-47A (032818)
Lab Sample ID: FA52912-1 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01885.D	1	04/02/18 13:39	FS	03/30/18 14:20	OP69415	S7G84
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0028	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	0.00035	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	0.00019	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	0.00020	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	0.00019	0.00019	mg/l	
218-01-9	Chrysene	0.00032	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	0.0020	0.00095	mg/l	
86-73-7	Fluorene	0.0022	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	0.0012	0.00095	mg/l	
91-20-3	Naphthalene	0.0044	0.00095	mg/l	
85-01-8	Phenanthrene	0.0046	0.00095	mg/l	
129-00-0	Pyrene	0.0014	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93% [a]		33-118%
4165-60-0	Nitrobenzene-d5	72% [a]		42-108%
321-60-8	2-Fluorobiphenyl	71% [a]		40-106%
1718-51-0	Terphenyl-d14	89% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-47A (032818)		
Lab Sample ID:	FA52912-1	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-56A (032818)
Lab Sample ID: FA52912-2 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E7019.D	1	03/31/18 13:04	MM	n/a	n/a	V5E283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56A (032818)
Lab Sample ID: FA52912-2 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059669.D	1	04/03/18 18:22	MV	03/30/18 14:20	OP69414	SX2492
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	77%		33-118%
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56A (032818)
Lab Sample ID: FA52912-2 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01995.D	1	04/05/18 20:57	FS	03/30/18 14:20	OP69415	S7G87
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00095	mg/l	
83-32-9	Acenaphthene	0.0018	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	0.0030	0.00095	mg/l	
85-01-8	Phenanthrene	0.0020	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	72% [a]		33-118%
4165-60-0	Nitrobenzene-d5	67% [a]		42-108%
321-60-8	2-Fluorobiphenyl	69% [a]		40-106%
1718-51-0	Terphenyl-d14	89% [a]		39-121%

(a) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56A (032818)		
Lab Sample ID:	FA52912-2	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-56A (032818)		
Lab Sample ID:	FA52912-2F	**Date Sampled:**	03/28/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-56B (032818)
Lab Sample ID: FA52912-3 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5E7020.D	1	03/31/18 13:29	MM	n/a	n/a	V5E283
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0484	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0116	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0234	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	117%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56B (032818)
Lab Sample ID: FA52912-3 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X059696.D	1	04/04/18 15:57	MV	03/30/18 14:20	OP69414	SX2494
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	0.0261	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	12%		10-50%
118-79-6	2,4,6-Tribromophenol	81%		33-118%
4165-60-0	Nitrobenzene-d5	55%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-56B (032818)
Lab Sample ID: FA52912-3 **Date Sampled:** 03/28/18
Matrix: AQ - Ground Water **Date Received:** 03/29/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G01996.D	2	04/05/18 21:21	FS	03/30/18 14:20	OP69415	S7G87
Run #2	4D3806.D	4	04/06/18 19:51	FS	03/30/18 14:20	OP69415	S4D144

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.0019	mg/l	
83-32-9	Acenaphthene	0.0363	0.0019	mg/l	
208-96-8	Acenaphthylene	ND	0.0019	mg/l	
120-12-7	Anthracene	0.0020	0.0019	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00038	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00038	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00038	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00038	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00038	mg/l	
218-01-9	Chrysene	ND	0.00038	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00038	mg/l	
206-44-0	Fluoranthene	ND	0.0019	mg/l	
86-73-7	Fluorene	0.0048	0.0019	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00038	mg/l	
91-57-6	2-Methylnaphthalene	0.0219	0.0019	mg/l	
91-20-3	Naphthalene	0.0955 [a]	0.0038	mg/l	
85-01-8	Phenanthrene	0.0021	0.0019	mg/l	
129-00-0	Pyrene	ND	0.0019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	59% [b]	103% [b]	33-118%
4165-60-0	Nitrobenzene-d5	44% [b]	52% [b]	42-108%
321-60-8	2-Fluorobiphenyl	55% [b]	59% [b]	40-106%
1718-51-0	Terphenyl-d14	68% [b]	65% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-56B (032818)		
Lab Sample ID:	FA52912-3	**Date Sampled:**	03/28/18
Matrix:	AQ - Ground Water	**Date Received:**	03/29/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-56B (032818)
Lab Sample ID: FA52912-3F
Matrix: AQ - Groundwater Filtered
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Date Sampled: 03/28/18
Date Received: 03/29/18
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/06/18	04/06/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14808
(2) Prep QC Batch: MP33564

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA52912

COC # 1 of 1

CSX TRANSPORTATION CHAIN OF CUSTODY

LABORATORY INFORMATION		SHIPMENT INFORMATION
Accutest	Phone: 407-425-6700	Shipment Method: Fed Ex
4405 Vineland Rd., Suite C-15	Fax: 407-425-0707	Shipment Tracking No:
Orlando, FL 32811		

CSXT PROJECT INFORMATION		CONSULTANT INFORMATION	
CSXT Project Number: 9415829	Proj. State (State of Origin): IN	Company: Arcadis	Project #: IN000072.0077.00001
CSXT Project Name: IN Creosote	Proj. City: Bloomington	Address: 150 W. Market St. 728	PM: Randall Woodruff
CSXT Contact: Dan Dyer	LWON: ENV 53216	City, State, Zip: Indianapolis, IN	Email: Randall.Woodruff@arcadis.com
			Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

Note Pres. Code

METHODS FOR ANALYSIS

SAMPLE INFORMATION

	Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270 (Site COCs)	Total Metals (Site COCs)	Dissolved Metals (Lab filtered)	COMMENTS	LAB USE
	TB-1 (032818)	1	3/28/18											
1	MW-47A (032818)	6	3/28/18	1235	RJW	N	Grab		X	X	X			
2	MW-56A (032818)	7	3/28/18	1425	RJW	N	Grab		X	X	X	X		
3	MW-56B (032818)	7	3/28/18	1345	RJW	N	Grab		X	X	X	X		

Relinquished By: Riley White / Arcadis	Date Time: 3/28/18 1630	Received By: FX	Date Time:	Comments & Special Analytical Requirements: - See table for off site COCs - Dissolved metals - lab filtered preserve (1L Amber x)	
Relinquished By: FX	Date Time:	Received By: J. Compl	Date Time: 03-29-18 1000		
Relinquished By:	Date Time:	Received By:	Date Time:		
Received By Laboratory:	Date Time:	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #	LAB Log Number #

ORIGINAL- RETURN TO LABORATORY WITH SAMPLES Rev. 5/21/02 5.0 INVOICE MUST BE DELIVERED WITH ORIGINAL COC AND FINAL REPORT TO CONSULTANT

FA52912: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA52912 **Client:** ARCADIS **Project:** 9415829

Date / Time Received: 3/29/2018 10:00:00 AM **Delivery Method:** FX **Airbill #'s:** 1002866864210003281100780292171292

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.6);

Cooler Temps (Corrected) °C: Cooler 1: (5.0);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments 1 vial received instead of 3,for sample #2 broken

SM001
Rev. Date 05/24/17

Technician: JORGEC Date: 3/29/2018 10:00:00 A Reviewer: P.H Date: 3/29/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

SGS Job Number: FA53205

Sampling Date: 04/09/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 27

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

CSX Transportation

Job No: FA53205

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA53205-1	04/09/18	11:40	RJW	04/10/18	AQ	Ground Water	MW-21S (040918)
FA53205-2	04/09/18	10:55	RJW	04/10/18	AQ	Ground Water	MW-17S (040918)
FA53205-2F	04/09/18	10:55	RJW	04/10/18	AQ	Ground Water	MW-17S (040918)
FA53205-3	04/09/18	10:20	RJW	04/10/18	AQ	Ground Water	MW-8S (040918)
FA53205-4	04/09/18	12:15	RJW	04/10/18	AQ	Ground Water	MW-6S (040918)
FA53205-4F	04/09/18	12:15	RJW	04/10/18	AQ	Ground Water	MW-6S (040918)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA53205

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/24/2018 5:11:45

4 Sample(s) were collected on 04/09/2018 and were received at SGS North America Inc - Orlando on 04/10/2018 properly preserved, at 4.2 Deg. C and intact. These Samples received an SGS Orlando job number of FA53205. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1968

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53195-6MS, FA53195-6MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69616

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53212-2MS, FA53212-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Methylphenol, Phenol are outside control limits.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 2-Methylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA53205-4 have surrogates outside control limits.

FA53205-1: Insufficient sample for re-extraction.

FA53205-1 for Phenol: Associated BS recovery outside control limits.

FA53205-1 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53205-2 for Phenol: Associated BS recovery outside control limits.

FA53205-2 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53205-2: Confirmed ND by re-extraction and reanalysis.

FA53205-4: Confirmation run for surrogate recoveries.

FA53205-4: Confirmed ND by re-extraction and reanalysis.

FA53205-4 for Phenol: Associated BS recovery outside control limits.

FA53205-4 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53205-4 for Phenol-d5: Outside control limits due to matrix interference. Confirmed by reanalysis.

Matrix: AQ **Batch ID:** OP69740

FA53205-2: Confirmation run.

FA53205-4: Confirmation run.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69617

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53212-3MS, FA53212-3MSD were used as the QC samples indicated.

Sample(s) OP69617-BS have surrogates outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69617

OP69617-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53205-4 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33583

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53156-2DUP, FA53156-2MS, FA53156-2MSD, FA53156-2PS, FA53156-2SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33583-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33583-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP33584

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53205-2FDUP, FA53205-2FMS, FA53205-2FMSD, FA53205-2FPS, FA53205-2FSDL were used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33584-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33584-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____
Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA53205
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 04/09/18

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53205-1	**MW-21S (040918)**					
No hits reported in this sample.						
FA53205-2	**MW-17S (040918)**					
Lead		0.0245	0.0050		mg/l	SW846 6010C
FA53205-2F	**MW-17S (040918)**					
No hits reported in this sample.						
FA53205-3	**MW-8S (040918)**					
No hits reported in this sample.						
FA53205-4	**MW-6S (040918)**					
No hits reported in this sample.						
FA53205-4F	**MW-6S (040918)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-21S (040918)
Lab Sample ID: FA53205-1 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52401.D	1	04/11/18 15:41	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21S (040918)		
Lab Sample ID:	FA53205-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059915.D	1	04/20/18 20:41	NJ	04/13/18 13:00	OP69616	SX2502
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol [b]	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [b]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		14-67%
4165-62-2	Phenol-d5	13%		10-50%
118-79-6	2,4,6-Tribromophenol	65%		33-118%
4165-60-0	Nitrobenzene-d5	71%		42-108%
321-60-8	2-Fluorobiphenyl	72%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

(a) Insufficient sample for re-extraction.
(b) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-21S (040918)
Lab Sample ID: FA53205-1 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02072.D	1	04/16/18 16:21	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3857.D	1	04/18/18 14:53	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00098	mg/l	
83-32-9	Acenaphthene	ND	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	ND	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	102% [b]	81% [b]	33-118%
4165-60-0	Nitrobenzene-d5	84% [b]	68% [b]	42-108%
321-60-8	2-Fluorobiphenyl	82% [b]	61% [b]	40-106%
1718-51-0	Terphenyl-d14	87% [b]	62% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21S (040918)		
Lab Sample ID:	FA53205-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-17S (040918)
Lab Sample ID: FA53205-2 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52402.D	1	04/11/18 16:02	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (040918)		
Lab Sample ID:	FA53205-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059916.D	1	04/20/18 21:06	NJ	04/13/18 13:00	OP69616	SX2502
Run #2 [b]	9I001199.D	1	04/23/18 16:27	MV	04/23/18 09:00	OP69740	S9I43

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol [c]	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [c]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%	30%	14-67%
4165-62-2	Phenol-d5	11%	17%	10-50%
118-79-6	2,4,6-Tribromophenol	59%	94%	33-118%
4165-60-0	Nitrobenzene-d5	64%	79%	42-108%
321-60-8	2-Fluorobiphenyl	65%	85%	40-106%
1718-51-0	Terphenyl-d14	69%	87%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-17S (040918)
Lab Sample ID: FA53205-2 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02073.D	1	04/16/18 16:44	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3858.D	1	04/18/18 15:26	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00097	mg/l	
83-32-9	Acenaphthene	ND	0.00097	mg/l	
208-96-8	Acenaphthylene	ND	0.00097	mg/l	
120-12-7	Anthracene	ND	0.00097	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00097	mg/l	
86-73-7	Fluorene	ND	0.00097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00097	mg/l	
91-20-3	Naphthalene	ND	0.00097	mg/l	
85-01-8	Phenanthrene	ND	0.00097	mg/l	
129-00-0	Pyrene	ND	0.00097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93% [b]	78% [b]	33-118%
4165-60-0	Nitrobenzene-d5	79% [b]	62% [b]	42-108%
321-60-8	2-Fluorobiphenyl	79% [b]	56% [b]	40-106%
1718-51-0	Terphenyl-d14	86% [b]	56% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17S (040918)		
Lab Sample ID:	FA53205-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0245	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-17S (040918)		
Lab Sample ID:	FA53205-2F	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8S (040918)
Lab Sample ID: FA53205-3 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52403.D	1	04/11/18 16:23	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8S (040918)		
Lab Sample ID:	FA53205-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-6S (040918)
Lab Sample ID: FA53205-4 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52404.D	1	04/11/18 16:43	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (040918)		
Lab Sample ID:	FA53205-4	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059917.D	1	04/20/18 21:31	NJ	04/13/18 13:00	OP69616	SX2502
Run #2 [b]	X059950.D	1	04/21/18 18:32	NJ	04/13/18 13:00	OP69616	SX2503
Run #3 [c]	9I001200.D	1	04/23/18 16:53	MV	04/23/18 09:00	OP69740	S9I43

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml
Run #3	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol [d]	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [d]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	16%	16%	31%	14-67%
4165-62-2	Phenol-d5	9% [e]	9%	18%	10-50%
118-79-6	2,4,6-Tribromophenol	47%	49%	99%	33-118%
4165-60-0	Nitrobenzene-d5	55%	54%	81%	42-108%
321-60-8	2-Fluorobiphenyl	54%	54%	89%	40-106%
1718-51-0	Terphenyl-d14	59%	62%	90%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Confirmation run.
(d) Associated BS recovery outside control limits.
(e) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (040918)		
Lab Sample ID:	FA53205-4	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02074.D	1	04/16/18 17:08	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3859.D	1	04/18/18 15:59	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	70% [b]	64% [b]	33-118%
4165-60-0	Nitrobenzene-d5	60% [b]	50% [b]	42-108%
321-60-8	2-Fluorobiphenyl	60% [b]	45% [b]	40-106%
1718-51-0	Terphenyl-d14	66% [b]	49% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6S (040918)		
Lab Sample ID:	FA53205-4	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6S (040918)		
Lab Sample ID:	FA53205-4F	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA53205

CSX TRANSPORTATION

CHAIN OF CUSTODY

Pace Analytical Services, Inc.
- ☐ NC, Huntersville, 9800 Kincey Ave, Ste 100, 28078, Tel. 704-875-9092 ext. 234
- ☐ IN, Indianapolis, 7726 Moller Rd., 46268, Tel. 317-875-5894
- ☐ LA, New Orleans, 1000 Riverbend Blvd., Ste F, St.Rose, 77087, Tel. 504-469-0333
- ☐ PA, Greensburg, 1638 Roseytown Road, Flex Building 2, 15601, Tel. 724-733-1161

SHIPMENT INFORMATION
COC No: 1037
Shipment Method: Fedex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 9415829
Proj. State (State of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
LWON: ENV 53216

CONSULTANT INFORMATION
Project #: IN000072.0077.00001
Company: Arcadis
PM: Randall Woodruff
Address: 150 w. Market St. 728
Email: Randall.Woodruff@arcadis.com
City, State, Zip: Indianapolis, IN 46204
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____ — Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	BTEX 8260	SVOCs 8270	Total Metals (6010/7470)	Dissolved Metals 6010	COMMENTS	LAB USE
MW-21S (040918)	5	04/09	1140	RJW	N	Grab		X	X	X			1
MW-17S (040918)	7	04/09/18	1055	RJW	N	Grab		X	X	X	X		2
MW-8S (040918)	5	04/09/18	1020	RJW	N	Grab		X	X	X			3
MW-6S (040918)	7	04/09/18	1215	RJW	N	Grab		X	X	X	X		4

Relinquished By: Riley White / Arcadis	Date Time: 4/9/18 1745	Received By: Fed Ex	Date Time:
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory: 04/10/18 915	Date Time:	Cooler Temperature: 4.2	LAB USE: ☐ Yes Custody Intact ☐ No

Comments & Special Analytical Requirements:
- See Table 1 for site COCs
- Dissolved metals - lab filter + preserve (1L Amber)

Custody Seal #: #
LAB Log Number: #

ORIGINAL- RETURN TO CSXT WITH INVOICE. COPY- SUBMIT TO CONSULTANT WITH REPORT — Rev. 01/18/07 — INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

5.1 5

FA53205: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA53205 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 4/10/2018 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826071360003281100780449195262

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☐		☑	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 2

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #3 AMBER REC'D BROKEN.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 4/10/2018 9:15:00 AM Reviewer: P.H Date: 4/10/2018

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0074.00002

SGS Job Number: FA53206

Sampling Date: 04/09/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com

ATTN: Randy Woodruff

Total number of pages in report: 25

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Sample Summary

CSX Transportation

Job No: FA53206

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0074.00002

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA53206-1	04/09/18	14:30	RJW	04/10/18	AQ	Ground Water	MW-45A (040918)
FA53206-1F	04/09/18	14:30	RJW	04/10/18	AQ	Ground Water	MW-45A (040918)
FA53206-2	04/09/18	15:10	RJW	04/10/18	AQ	Ground Water	MW-45B (040918)
FA53206-2F	04/09/18	15:10	RJW	04/10/18	AQ	Ground Water	MW-45B (040918)
FA53206-3	04/09/18	15:45	RJW	04/10/18	AQ	Ground Water	MW-45C (040918)
FA53206-3F	04/09/18	15:45	RJW	04/10/18	AQ	Ground Water	MW-45C (040918)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CSX Transportation **Job No:** FA53206

Site: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, **Report Date:** 4/24/2018 5:13:28

3 Sample(s) were collected on 04/09/2018 and were received at SGS North America Inc - Orlando on 04/10/2018 properly preserved, at 4 Deg. C and intact. These Samples received an SGS Orlando job number of FA53206. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VO1968

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53195-6MS, FA53195-6MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene, Ethylbenzene, Toluene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

FA53206-2: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

MS Semi-volatiles By Method SW846 8270D

Matrix: AQ **Batch ID:** OP69616

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53212-2MS, FA53212-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Methylphenol, Phenol are outside control limits.

Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 2-Methylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, Carbazole are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA53206-1, FA53206-3 have surrogates outside control limits.

FA53206-1 for Phenol-d5: Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

FA53206-1 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53206-1 for Phenol: Associated BS recovery outside control limits.

FA53206-1: Confirmation run for surrogate recoveries.

FA53206-1: Insufficient sample for re-extraction.

FA53206-2: Confirmed ND by re-extraction and reanalysis.

FA53206-2 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53206-2 for Phenol: Associated BS recovery outside control limits.

FA53206-3: Confirmation run for surrogate recoveries.

FA53206-3: Insufficient sample for re-extraction.

FA53206-3 for Phenol-d5: Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

FA53206-3 for 2-Methylphenol: Associated BS recovery outside control limits.

FA53206-3 for Phenol: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** OP69740

FA53206-2: Confirmation run.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69617

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53212-3MS, FA53212-3MSD were used as the QC samples indicated.

Sample(s) OP69617-BS have surrogates outside control limits.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP69617

OP69617-MB for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

OP69617-MB for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53206-1 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-2 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for Terphenyl-d14: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for 2-Fluorobiphenyl: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for Nitrobenzene-d5: Surrogate recoveries corrected for actual spike amount.

FA53206-3 for 2,4,6-Tribromophenol: Surrogate recoveries corrected for actual spike amount.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP33584

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA53205-2FDUP, FA53205-2FMS, FA53205-2FMSD, FA53205-2FPS, FA53205-2FSDLwere used as the QC samples for metals.

RPD(s) for Duplicate for Lead are outside control limits for sample MP33584-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Lead are outside control limits for sample MP33584-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA53206
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 04/09/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53206-1	**MW-45A (040918)**					
No hits reported in this sample.						
FA53206-1F	**MW-45A (040918)**					
No hits reported in this sample.						
FA53206-2	**MW-45B (040918)**					
No hits reported in this sample.						
FA53206-2F	**MW-45B (040918)**					
No hits reported in this sample.						
FA53206-3	**MW-45C (040918)**					
Lead		0.0059	0.0050		mg/l	SW846 6010C
FA53206-3F	**MW-45C (040918)**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-45A (040918)
Lab Sample ID: FA53206-1 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52398.D	1	04/11/18 14:39	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (040918)		
Lab Sample ID:	FA53206-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059918.D	1	04/20/18 21:57	NJ	04/13/18 13:00	OP69616	SX2502
Run #2 [b]	X059951.D	1	04/21/18 18:57	NJ	04/13/18 13:00	OP69616	SX2503

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0048	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	mg/l	
95-48-7	2-Methylphenol [c]	ND	0.0048	mg/l	
	3&4-Methylphenol	ND	0.0048	mg/l	
108-95-2	Phenol [c]	ND	0.0048	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	mg/l	
86-74-8	Carbazole	ND	0.0048	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%	15%	14-67%
4165-62-2	Phenol-d5	9% [d]	9%	10-50%
118-79-6	2,4,6-Tribromophenol	43%	47%	33-118%
4165-60-0	Nitrobenzene-d5	49%	49%	42-108%
321-60-8	2-Fluorobiphenyl	48%	48%	40-106%
1718-51-0	Terphenyl-d14	61%	63%	39-121%

(a) Insufficient sample for re-extraction.
(b) Confirmation run for surrogate recoveries.
(c) Associated BS recovery outside control limits.
(d) Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (040918)		
Lab Sample ID:	FA53206-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02075.D	1	04/16/18 17:31	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3860.D	1	04/18/18 16:33	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2	1050 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00095	mg/l	
83-32-9	Acenaphthene	ND	0.00095	mg/l	
208-96-8	Acenaphthylene	ND	0.00095	mg/l	
120-12-7	Anthracene	ND	0.00095	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00019	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00019	mg/l	
218-01-9	Chrysene	ND	0.00019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00019	mg/l	
206-44-0	Fluoranthene	ND	0.00095	mg/l	
86-73-7	Fluorene	ND	0.00095	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00019	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00095	mg/l	
91-20-3	Naphthalene	ND	0.00095	mg/l	
85-01-8	Phenanthrene	ND	0.00095	mg/l	
129-00-0	Pyrene	ND	0.00095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68% [b]	71% [b]	33-118%
4165-60-0	Nitrobenzene-d5	57% [b]	49% [b]	42-108%
321-60-8	2-Fluorobiphenyl	57% [b]	51% [b]	40-106%
1718-51-0	Terphenyl-d14	73% [b]	52% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45A (040918)		
Lab Sample ID:	FA53206-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45A (040918)		
Lab Sample ID:	FA53206-1F	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (040918)		
Lab Sample ID:	FA53206-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	O52399.D	1	04/11/18 15:00	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (040918)		
Lab Sample ID:	FA53206-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059919.D	1	04/20/18 22:22	NJ	04/13/18 13:00	OP69616	SX2502
Run #2 [b]	9I001201.D	1	04/23/18 17:19	MV	04/23/18 09:00	OP69740	S9I43

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol [c]	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol [c]	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%	30%	14-67%
4165-62-2	Phenol-d5	10%	17%	10-50%
118-79-6	2,4,6-Tribromophenol	53%	95%	33-118%
4165-60-0	Nitrobenzene-d5	54%	74%	42-108%
321-60-8	2-Fluorobiphenyl	54%	82%	40-106%
1718-51-0	Terphenyl-d14	62%	82%	39-121%

(a) Confirmed ND by re-extraction and reanalysis.
(b) Confirmation run.
(c) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45B (040918)
Lab Sample ID: FA53206-2 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02076.D	1	04/16/18 17:55	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3861.D	1	04/18/18 17:07	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	90% [b]	79% [b]	33-118%
4165-60-0	Nitrobenzene-d5	68% [b]	56% [b]	42-108%
321-60-8	2-Fluorobiphenyl	68% [b]	54% [b]	40-106%
1718-51-0	Terphenyl-d14	81% [b]	60% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45B (040918)		
Lab Sample ID:	FA53206-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45B (040918)		
Lab Sample ID:	FA53206-2F	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-45C (040918)
Lab Sample ID: FA53206-3 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8260B **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52400.D	1	04/11/18 15:21	MM	n/a	n/a	VO1968
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (040918)		
Lab Sample ID:	FA53206-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059920.D	1	04/20/18 22:48	NJ	04/13/18 13:00	OP69616	SX2502
Run #2 [b]	X059952.D	1	04/21/18 19:23	NJ	04/13/18 13:00	OP69616	SX2503

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol [c]	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol [c]	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	16%	16%	14-67%
4165-62-2	Phenol-d5	9% [d]	9%	10-50%
118-79-6	2,4,6-Tribromophenol	48%	51%	33-118%
4165-60-0	Nitrobenzene-d5	56%	56%	42-108%
321-60-8	2-Fluorobiphenyl	55%	54%	40-106%
1718-51-0	Terphenyl-d14	61%	62%	39-121%

(a) Insufficient sample for re-extraction.
(b) Confirmation run for surrogate recoveries.
(c) Associated BS recovery outside control limits.
(d) Outside control limits. Confirmed by reanalysis. Insufficient sample for re-extraction.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-45C (040918)
Lab Sample ID: FA53206-3 **Date Sampled:** 04/09/18
Matrix: AQ - Ground Water **Date Received:** 04/10/18
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02077.D	1	04/16/18 18:19	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3862.D	1	04/18/18 17:41	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.0010	mg/l	
83-32-9	Acenaphthene	ND	0.0010	mg/l	
208-96-8	Acenaphthylene	ND	0.0010	mg/l	
120-12-7	Anthracene	ND	0.0010	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.0010	mg/l	
86-73-7	Fluorene	ND	0.0010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0010	mg/l	
91-20-3	Naphthalene	ND	0.0010	mg/l	
85-01-8	Phenanthrene	ND	0.0010	mg/l	
129-00-0	Pyrene	ND	0.0010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77% [b]	67% [b]	33-118%
4165-60-0	Nitrobenzene-d5	66% [b]	53% [b]	42-108%
321-60-8	2-Fluorobiphenyl	66% [b]	48% [b]	40-106%
1718-51-0	Terphenyl-d14	72% [b]	52% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-45C (040918)		
Lab Sample ID:	FA53206-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0059	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-45C (040918)		
Lab Sample ID:	FA53206-3F	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA53206

CHAIN OF CUSTODY

CSX TRANSPORTATION

~~Pace Analytical Services, Inc.~~ Accutest
- ☐ ~~NC, Huntersville, 9800 Kincey Ave, Ste 100, 28078, Tel: 704-875-9092 ext 241~~
- ☐ ~~IN, Indianapolis, 7726 Moller Rd., 46268, Tel: 317-875-5894~~
- ☐ ~~LA, New Orleans, 1000 Riverbend Blvd., Ste F, St.Rose, 77087, Tel: 504-469-0333~~
- ☐ ~~PA, Pittsburgh, 5200 Triangle Lane, Export, 15632, Tel: 724-733-1161~~

SHIPMENT INFORMATION
COC No: P-00348
Shipment Method: Fed Ex
Shipment Tracking No:

CSXT PROJECT INFORMATION
CSXT Project Number: 941582 9
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
Proj. State (State of Origin): IN
Proj. City: Bloomington
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Address: 150 W. Market St. 725
City, State, Zip: Indianapolis, IN 46204
Project #: IN000072.0077.00001
PM: Randall Woodruff
Email: Randall.Woodruff@arcadis.com
Phone: 317-231-6608 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days — Specify # Days _____
- ☒ Standard 14 Days
- ☐ Other _____

Deliverables:
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ Other Deliv: _____
- ☐ EDD Required, Format: _____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	ANALYTICAL METHODS: BTEX 8260	SVOCs 8270 (site coc only)	Total Metals (6010 for Pb)	Dissolved Metals (6010)	COMMENTS	LAB USE
MW-45A (040918)	6	4/9/18	1430	RJW	N	Grab		X	X	X	X		1
MW-45B (040918)	6	4/9/18	1510	RJW	N	Grab		X	X	X	X		2
MW-45C (040918)	6	4/9/18	1545	RJW	N	Grab		X	X	X	X		3

Relinquished By: Patty White/Arcadis	Date Time: 4/9/18 1700	Received By: Fed Ex	Date Time:	Comments & Special Analytical Requirements: -See table 1 for site COCs - Dissolved Metals - lab filter & preserve (1 L Amber)
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:	
Relinquished By:	Date Time:	Received By:	Date Time:	
Received By Laboratory:	Date Time: 04/10/18 915	Cooler Temperature: 4.0	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # # / LAB Log Number #

ORIGINAL- RETURN TO CSXT WITH INVOICE. COPY- SUBMIT TO CONSULTANT WITH REPORT
Rev. 01/18/07
INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

5.1 5

FA53206: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA53206 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 4/10/2018 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1002826071360003281100780449195251

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 4/10/2018 9:15:00 AM Reviewer: P.H Date: 4/10/2018

FA53206: Chain of Custody
Page 2 of 2

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

CSX Transportation

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

IN000072.0077.00001

SGS Job Number: FA53212

Sampling Date: 04/09/18

Report to:

ARCADIS Geraghty & Miller

Randall.woodruff@arcadis-us.com
randall.woodruff@arcadis.com
ATTN: Distribution

Total number of pages in report: **49**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Ken Overstreet 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

April 10, 2018

Mr. Randall Woodruff
Arcadis U.S., Inc
150 West Market Street, Suite 728
Indianapolis, IN 46204

RE: SGS North America Inc. - Orlando job FA53212 Reissue

Dear Mr. Woodruff,

The final report for job number FA53212 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

Sample FA53212-2 was corrected to report Naphthalene.

SGS North America Inc. - Orlando apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS North America, Inc. - Orlando

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SGS North America Inc.

Sample Summary

CSX Transportation

Job No: FA53212

AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Project No: IN000072.0077.00001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA53212-1	04/09/18	13:40	RW	04/10/18	AQ	Ground Water	MW-P-4(040918)
FA53212-1F	04/09/18	13:40	RW	04/10/18	AQ	Groundwater Filtered	MW-P-4(040918)
FA53212-2	04/09/18	16:35	RW	04/10/18	AQ	Ground Water	MW-54B (040918)
FA53212-2F	04/09/18	16:35	RW	04/10/18	AQ	Groundwater Filtered	MW-54B (040918)
FA53212-3	04/09/18	13:00	RW	04/10/18	AQ	Ground Water	MW-9 (040918)
FA53212-3F	04/09/18	13:00	RW	04/10/18	AQ	Groundwater Filtered	MW-9 (040918)

Summary of Hits

Job Number: FA53212
Account: CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN
Collected: 04/09/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA53212-1	**MW-P-4(040918)**					
Acenaphthene		0.0159	0.00098		mg/l	SW846 8270D BY SIM
Fluorene		0.0032	0.00098		mg/l	SW846 8270D BY SIM
Lead		0.0160	0.0050		mg/l	SW846 6010C
FA53212-1F	**MW-P-4(040918)**					
No hits reported in this sample.						
FA53212-2	**MW-54B (040918)**					
Benzene		0.0700	0.0050		mg/l	SW846 8260B
Toluene		0.0253	0.0050		mg/l	SW846 8260B
Ethylbenzene		0.0777	0.0050		mg/l	SW846 8260B
Xylene (total)		0.0721	0.015		mg/l	SW846 8260B
2,4-Dimethylphenol [a]		0.0429	0.024		mg/l	SW846 8270D
Carbazole [a]		0.0672	0.024		mg/l	SW846 8270D
Dibenzofuran [a]		0.0559	0.024		mg/l	SW846 8270D
Acenaphthene		0.214	0.0097		mg/l	SW846 8270D BY SIM
Fluorene		0.0610	0.0097		mg/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.0921	0.0097		mg/l	SW846 8270D BY SIM
Naphthalene		1.35	0.039		mg/l	SW846 8270D BY SIM
Phenanthrene		0.0563	0.0097		mg/l	SW846 8270D BY SIM
FA53212-2F	**MW-54B (040918)**					
No hits reported in this sample.						
FA53212-3	**MW-9 (040918)**					
Lead		0.0124	0.0050		mg/l	SW846 6010C
FA53212-3F	**MW-9 (040918)**					
No hits reported in this sample.						

(a) Insufficient sample for re-extraction. Dilution required due to matrix interference.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-P-4(040918)		
Lab Sample ID:	FA53212-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52434.D	1	04/12/18 18:17	AB	n/a	n/a	VO1969
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P-4(040918)		
Lab Sample ID:	FA53212-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059921.D	1	04/20/18 23:13	NJ	04/13/18 13:00	OP69616	SX2502
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0049	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0049	mg/l	
95-48-7	2-Methylphenol [b]	ND	0.0049	mg/l	
	3&4-Methylphenol	ND	0.0049	mg/l	
108-95-2	Phenol [b]	ND	0.0049	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0049	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0049	mg/l	
86-74-8	Carbazole	ND	0.0049	mg/l	
132-64-9	Dibenzofuran	ND	0.0049	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0049	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	18%		14-67%
4165-62-2	Phenol-d5	10%		10-50%
118-79-6	2,4,6-Tribromophenol	60%		33-118%
4165-60-0	Nitrobenzene-d5	64%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	69%		39-121%

(a) Insufficient sample for re-extraction.
(b) Associated BS recovery outside control limits. Within limits in ms/msd.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P-4(040918)		
Lab Sample ID:	FA53212-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02078.D	1	04/16/18 18:42	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3863.D	1	04/18/18 18:15	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1020 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00098	mg/l	
83-32-9	Acenaphthene	0.0159	0.00098	mg/l	
208-96-8	Acenaphthylene	ND	0.00098	mg/l	
120-12-7	Anthracene	ND	0.00098	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00098	mg/l	
86-73-7	Fluorene	0.0032	0.00098	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00098	mg/l	
91-20-3	Naphthalene	ND	0.00098	mg/l	
85-01-8	Phenanthrene	ND	0.00098	mg/l	
129-00-0	Pyrene	ND	0.00098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	100% [b]	79% [b]	33-118%
4165-60-0	Nitrobenzene-d5	76% [b]	62% [b]	42-108%
321-60-8	2-Fluorobiphenyl	74% [b]	58% [b]	40-106%
1718-51-0	Terphenyl-d14	81% [b]	60% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-P-4(040918)		
Lab Sample ID:	FA53212-1	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0160	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-P-4(040918)		
Lab Sample ID:	FA53212-1F	**Date Sampled:**	04/09/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (040918)		
Lab Sample ID:	FA53212-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52435.D	1	04/12/18 18:38	AB	n/a	n/a	VO1969
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	0.0700	0.0050	mg/l	
108-88-3	Toluene	0.0253	0.0050	mg/l	
100-41-4	Ethylbenzene	0.0777	0.0050	mg/l	
1330-20-7	Xylene (total)	0.0721	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	87%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (040918)		
Lab Sample ID:	FA53212-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059922.D	5	04/20/18 23:38	NJ	04/13/18 13:00	OP69616	SX2502
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.024	mg/l	
105-67-9	2,4-Dimethylphenol	0.0429	0.024	mg/l	
95-48-7	2-Methylphenol [b]	ND	0.024	mg/l	
	3&4-Methylphenol	ND	0.024	mg/l	
108-95-2	Phenol [b]	ND	0.024	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.024	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.024	mg/l	
86-74-8	Carbazole	0.0672	0.024	mg/l	
132-64-9	Dibenzofuran	0.0559	0.024	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.024	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	16%		10-50%
118-79-6	2,4,6-Tribromophenol	52%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	65%		39-121%

(a) Insufficient sample for re-extraction. Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits. Within limits in ms/msd.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (040918)		
Lab Sample ID:	FA53212-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D3864.D	1	04/18/18 18:49	FS	04/13/18 13:00	OP69617	S4D148
Run #2	7G02079.D	10	04/16/18 19:06	FS	04/13/18 13:00	OP69617	S7G90
Run #3	7G02108.D	40	04/17/18 18:47	FS	04/13/18 13:00	OP69617	S7G91

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml
Run #3	1030 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	0.00097	mg/l	
83-32-9	Acenaphthene	0.214 [a]	0.0097	mg/l	
208-96-8	Acenaphthylene	ND [a]	0.0097	mg/l	
120-12-7	Anthracene	ND [a]	0.0097	mg/l	
56-55-3	Benzo(a)anthracene	ND [a]	0.0019	mg/l	
50-32-8	Benzo(a)pyrene	ND [a]	0.0019	mg/l	
205-99-2	Benzo(b)fluoranthene	ND [a]	0.0019	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND [a]	0.0019	mg/l	
207-08-9	Benzo(k)fluoranthene	ND [a]	0.0019	mg/l	
218-01-9	Chrysene	ND [a]	0.0019	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND [a]	0.0019	mg/l	
206-44-0	Fluoranthene	ND [a]	0.0097	mg/l	
86-73-7	Fluorene	0.0610 [a]	0.0097	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND [a]	0.0019	mg/l	
91-57-6	2-Methylnaphthalene	0.0921 [a]	0.0097	mg/l	
91-20-3	Naphthalene	1.35 [b]	0.039	mg/l	
85-01-8	Phenanthrene	0.0563 [a]	0.0097	mg/l	
129-00-0	Pyrene	ND [a]	0.0097	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
118-79-6	2,4,6-Tribromophenol	0%	0% [c]	0% [c]	33-118%
4165-60-0	Nitrobenzene-d5	0%	0% [c]	0% [c]	42-108%
321-60-8	2-Fluorobiphenyl	0%	0% [c]	0% [c]	40-106%
1718-51-0	Terphenyl-d14	0%	0% [c]	0% [c]	39-121%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-54B (040918)		
Lab Sample ID:	FA53212-2	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-54B (040918)		
Lab Sample ID:	FA53212-2F	**Date Sampled:**	04/09/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-9 (040918)		
Lab Sample ID:	FA53212-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O52436.D	1	04/12/18 18:59	AB	n/a	n/a	VO1969
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.0050	mg/l	
108-88-3	Toluene	ND	0.0050	mg/l	
100-41-4	Ethylbenzene	ND	0.0050	mg/l	
1330-20-7	Xylene (total)	ND	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (040918)		
Lab Sample ID:	FA53212-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	X059925.D	1	04/21/18 00:54	NJ	04/13/18 13:00	OP69616	SX2502
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	0.0050	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0050	mg/l	
95-48-7	2-Methylphenol [b]	ND	0.0050	mg/l	
	3&4-Methylphenol	ND	0.0050	mg/l	
108-95-2	Phenol [b]	ND	0.0050	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0050	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0050	mg/l	
86-74-8	Carbazole	ND	0.0050	mg/l	
132-64-9	Dibenzofuran	ND	0.0050	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		14-67%
4165-62-2	Phenol-d5	11%		10-50%
118-79-6	2,4,6-Tribromophenol	57%		33-118%
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	68%		39-121%

(a) Insufficient sample for re-extraction.
(b) Associated BS recovery outside control limits. Within limits in ms/msd.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (040918)		
Lab Sample ID:	FA53212-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7G02080.D	1	04/16/18 19:30	FS	04/13/18 13:00	OP69617	S7G90
Run #2	4D3865.D	1	04/18/18 19:22	FS	04/13/18 13:00	OP69617	S4D148

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2	1010 ml	1.0 ml

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND [a]	0.00099	mg/l	
83-32-9	Acenaphthene	ND	0.00099	mg/l	
208-96-8	Acenaphthylene	ND	0.00099	mg/l	
120-12-7	Anthracene	ND	0.00099	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.00020	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.00020	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.00020	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.00020	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.00020	mg/l	
218-01-9	Chrysene	ND	0.00020	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.00020	mg/l	
206-44-0	Fluoranthene	ND	0.00099	mg/l	
86-73-7	Fluorene	ND	0.00099	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.00020	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.00099	mg/l	
91-20-3	Naphthalene	ND	0.00099	mg/l	
85-01-8	Phenanthrene	ND	0.00099	mg/l	
129-00-0	Pyrene	ND	0.00099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	94% [b]	78% [b]	33-118%
4165-60-0	Nitrobenzene-d5	80% [b]	64% [b]	42-108%
321-60-8	2-Fluorobiphenyl	79% [b]	58% [b]	40-106%
1718-51-0	Terphenyl-d14	85% [b]	62% [b]	39-121%

(a) Result is from Run# 2
(b) Surrogate recoveries corrected for actual spike amount.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9 (040918)		
Lab Sample ID:	FA53212-3	**Date Sampled:**	04/09/18
Matrix:	AQ - Ground Water	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	0.0124	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-9 (040918)		
Lab Sample ID:	FA53212-3F	**Date Sampled:**	04/09/18
Matrix:	AQ - Groundwater Filtered	**Date Received:**	04/10/18
		Percent Solids:	n/a
Project:	AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 0.010	0.010	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	< 0.0050	0.0050	mg/l	1	04/11/18	04/11/18	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA14816
(2) Prep QC Batch: MP33583

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

CSX TRANSPORTATION

~~Pace Analytical Services, Inc.~~ Accutest
- ~~NC, Huntersville, 9800 Kincey Ave, Ste 100, 28078, Tel. 704-875-9092 ext. 234~~
- ~~IN, Indianapolis, 7726 Moller Rd., 46268, Tel. 317-875-5894~~
- ~~LA, New Orleans, 1000 Riverbend Blvd., Ste F, St.Rose, 77087, Tel. 504-469-0333~~
- ~~PA, Greensburg, 1638 Roseytown Road, Flex Building 2, 15601, Tel. 724-733-1181~~

SHIPMENT INFORMATION
COC No: 1038
Shipment Method: FedEx
Shipment Tracking No: FA53212

CSXT PROJECT INFORMATION
CSXT Project Number: 941582 9
Proj. State (of Origin): IN
Proj. City: Bloomington
CSXT Project Name: IN Creosote
CSXT Contact: Dan Dyer
LWON: ENV 53216

CONSULTANT INFORMATION
Company: Arcadis
Project #: IN000072.0077.00001
PM: Randall Woodruff
Address: 150 W. Market St 728
Email: Randall.Woodruff@arcadis.com
City, State, Zip: Indianapolis IN 46204
Phone: 317-231-6500 Fax: 317-231-6514

Turnaround Time:
- ☐ 1 Day Rush
- ☐ 2 Day Rush
- ☐ 3 Day Rush
- ☐ Standard 6-13 Days
- Specify # Days ____
- ☒ Standard 14 Days
- ☐ Other ____

Deliverables:
- ☐ Other Deliv: ____
- ☒ CSXT Standard (Level II)
- ☐ Level III
- ☐ Level IV
- ☐ EDD Required, Format: ____

Preservative Codes: 0 = No Preservative; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other ____
Note ➡ Pres. Code

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	ANALYTICAL METHODS: BTEX 8260	SVOCS 8270	Total Metals (MPC)	Dissolved Metals 6010	COMMENTS	LAB USE
MW P-4 (040918) (1)	6	4/9/18	1340	RJW	N	Grab		X	X	X	X		
MW 54-B (040918) (2)	7	4/9/18	1035	RJW	N	Grab		X	X	X	X		
MW-9 (040918) (3)	7	4/9/18	1300	RJW	N	Grab		X	X	X	X		

Relinquished By: Ryan White / Arcadis	Date Time: 4/9/18 1730	Received By: Fed Ex	Date Time:
Relinquished By: Fed Ex	Date Time:	Received By:	Date Time:
Relinquished By:	Date Time:	Received By:	Date Time:
Received By Laboratory: 04/10/18 915	Date Time:	Cooler Temperature: 4.2	LAB USE: Custody Intact ☐ Yes ☐ No

Comments & Special Analytical Requirements:
- See Table 1 for site COCs
- Dissolved Metals - lab filter + preserve (1 L Amber)

Custody Seal # ____ LAB Log Number ____

ORIGINAL- RETURN TO CSXT WITH INVOICE. COPY- SUBMIT TO CONSULTANT WITH REPORT
Rev. 01/18/07
INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

4.1 4

FA53212: Chain of Custody
Page 1 of 3

Table 1. Chemicals of Concern

Units	Yes	Closure Limits mg/L Industrial	Closure Limits mg/L Residential	mg/L Laboratory Run Detection Limit
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	X	6.13	1.82	**Note 1**
Acenaphthylene	X	0.73	0.071	**Note 1**
Anthracene	X	31	9.12	**Note 1**
Benzo(a)anthracene	X	0.01	0.0001	**Note 1**
Benzo(a)pyrene	X	0.01	0.0002	**Note 1**
Benzo(b)fluoranthene	X	0.01	0.0002	**Note 1**
Benzo(g,h,i)perylene	X	***	***	**Note 1**
Benzo(k)fluoranthene	X	0.039	0.0002	**Note 1**
Carbazole	X	0.14	0.043	**Note 1**
Chrysene	X	0.392	0.0002	**Note 1**
Dibenzo(a,h)anthracene	X	0.01	0.0003	**Note 1**
Dibeznofuran	X	0.2	0.015	**Note 1**
Fluoranthene	X	0.818	0.243	**Note 1**
Fluorene	X	4.09	1.22	**Note 1**
Indeno(123-c,d)pyrene	X	0.01	0.0	**Note 1**
2-Methlynaphthalene	X	0.41	0.031	**Note 1**
Naphthalene	X	4.09	1.22	**Note 1**
Phenanthrene	X	0.310	0.023	**Note 1**
Pyrene	X	3.07	0.912	**Note 1**
BTEX				
Benzene	X	0.099	0.005	**0.005**
Toluene	X	10.2	0.7	**0.7**
Ethylbenzene	X	20.4	1	**1**
Exylenes	X	204	10	**1**
Phenolic Compounds				
2,4-Dimethylphenol	X	2	0.73	**Note 1**
2-Methylphenol (o-cresol)	X	5.11	1.52	**Note 1**
3-Methylphenol (m-cresol)	X	5.11	1.52	**Note 1**
4-Methylphenol (p-cresol)	X	5.11	1.52	**Note 1**
Pentachlorophenol	X	0.05	0.001	**Note 1**
2,4-Dichlorophenol	X	0.31	0.11	**Note 1**
Phenol	X	12	3.65	**Note 1**
2,4,6-Trichlorophenol	X	0.26	0.01	**Note 1**
Phthalates				
Butylbenzylphthalate	X	20	0.1	**Note 1**
Bis(2-ethylhexy)phthalate	X	0.204	0.006	**Note 1**
Metals				
Arsenic	X	0.05	0.05	**0.005**
Lead	X	0.015	0.015	**0.005**

Closure Limits are the IDEM VRP Industrial/Residential Closure Values
Note 1: Use Current Laboratory Run Detection Limit

FA53212: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA53212 **Client:** ARCADIS **Project:** IN CREOSOTE

Date / Time Received: 4/10/2018 9:15:00 AM **Delivery Method:** FED EX **Airbill #'s:** 1001891771360003281100780449195240

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (4.2);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☑	☐
2. Trip Blank listed on COC	☐		☑	☐

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☐		☑	
4. Condition of sample	Broken / Leaking			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☑	☐
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: 3

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments SAMPLE #1 REC'D 2- VIALS. SAMPLE #3 REC'D ONE VIAL BROKEN.

SM001
Rev. Date 05/24/17

Technician: SHAYLAP Date: 4/10/2018 9:15:00 AM Reviewer: SP Date: 4/10/2018

FA53212: Chain of Custody
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MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1969-MB	O52416.D	1	04/12/18	AB	n/a	n/a	VO1969

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

Blank Spike Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO1969-BS	O52415.D	1	04/12/18	AB	n/a	n/a	VO1969

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.8	103	81-122
100-41-4	Ethylbenzene	25	25.5	102	81-121
108-88-3	Toluene	25	25.0	100	80-120
1330-20-7	Xylene (total)	75	69.5	93	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	91%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA53195-4MS	O52437.D	50	04/12/18	AB	n/a	n/a	VO1969
FA53195-4MSD	O52438.D	50	04/12/18	AB	n/a	n/a	VO1969
FA53195-4	O52419.D	50	04/12/18	AB	n/a	n/a	VO1969

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	FA53195-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1670		1250	2880	97	1250	3020	108	5	81-122/14
100-41-4	Ethylbenzene	397		1250	1620	98	1250	1720	106	6	81-121/14
108-88-3	Toluene	2210		1250	3260	84	1250	3390	94	4	80-120/14
1330-20-7	Xylene (total)	1040		3750	4530	93	3750	4790	100	6	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA53195-4	Limits
1868-53-7	Dibromofluoromethane	101%	102%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	107%	95%	79-125%
2037-26-5	Toluene-D8	97%	98%	102%	85-112%
460-00-4	4-Bromofluorobenzene	91%	94%	94%	83-118%

* = Outside of Control Limits.

MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69616-MB	X059912.D	1	04/20/18	NJ	04/13/18	OP69616	SX2502

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Result	RL	Units	Q
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	26%	14-67%
4165-62-2	Phenol-d5	16%	10-50%
118-79-6	2,4,6-Tribromophenol	58%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	66%	40-106%
1718-51-0	Terphenyl-d14	73%	39-121%

Method Blank Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69617-MB	7G02070.D	1	04/16/18	FS	04/13/18	OP69617	S7G90

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	98% [a]	33-118%
4165-60-0	Nitrobenzene-d5	80% [a]	42-108%
321-60-8	2-Fluorobiphenyl	81% [a]	40-106%
1718-51-0	Terphenyl-d14	88% [a]	39-121%

(a) Surrogate recoveries corrected for actual spike amount.

Blank Spike Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69616-BS	X059911.D	1	04/20/18	NJ	04/13/18	OP69616	SX2502

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
120-83-2	2,4-Dichlorophenol	50	33.0	66	53-103
105-67-9	2,4-Dimethylphenol	50	25.7	51	43-90
95-48-7	2-Methylphenol	50	20.7	41*	43-90
	3&4-Methylphenol	100	36.6	37	36-88
108-95-2	Phenol	50	8.1	16*	19-56
88-06-2	2,4,6-Trichlorophenol	50	39.9	80	59-107
85-68-7	Butyl Benzyl Phthalate	50	37.8	76	65-112
86-74-8	Carbazole	50	38.1	76	59-113
132-64-9	Dibenzofuran	50	36.3	73	61-106
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.3	77	61-117

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	27%	14-67%
4165-62-2	Phenol-d5	16%	10-50%
118-79-6	2,4,6-Tribromophenol	63%	33-118%
4165-60-0	Nitrobenzene-d5	72%	42-108%
321-60-8	2-Fluorobiphenyl	71%	40-106%
1718-51-0	Terphenyl-d14	76%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69617-BS	7G02071.D	1	04/16/18	FS	04/13/18	OP69617	S7G90

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
87-86-5	Pentachlorophenol	20	11.9	60	43-110
83-32-9	Acenaphthene	10	7.3	73	56-101
208-96-8	Acenaphthylene	10	6.7	67	54-104
120-12-7	Anthracene	5	3.6	72	67-106
56-55-3	Benzo(a)anthracene	5	3.7	74	65-106
50-32-8	Benzo(a)pyrene	5	3.6	72	58-111
205-99-2	Benzo(b)fluoranthene	5	3.9	78	59-113
191-24-2	Benzo(g,h,i)perylene	5	3.5	70	43-112
207-08-9	Benzo(k)fluoranthene	5	3.8	76	58-110
218-01-9	Chrysene	5	4.0	80	66-107
53-70-3	Dibenzo(a,h)anthracene	5	3.5	70	40-113
206-44-0	Fluoranthene	10	7.3	73	64-110
86-73-7	Fluorene	10	7.6	76	60-106
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.6	72	44-112
91-57-6	2-Methylnaphthalene	10	6.4	64	53-105
91-20-3	Naphthalene	10	6.9	69	56-105
85-01-8	Phenanthrene	10	7.6	76	62-105
129-00-0	Pyrene	10	7.4	74	62-109

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	68%	33-118%
4165-60-0	Nitrobenzene-d5	74%	42-108%
321-60-8	2-Fluorobiphenyl	72%	40-106%
1718-51-0	Terphenyl-d14	80%	39-121%
7297-45-2	2-Methylnaphthalene-d10	0%*	50-150%
93951-69-0	Fluoranthene-d10	0%*	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69616-MS	X059923.D	1	04/21/18	NJ	04/13/18	OP69616	SX2502
OP69616-MSD	X059924.D	1	04/21/18	NJ	04/13/18	OP69616	SX2502
FA53212-2 [a]	X059922.D	5	04/20/18	NJ	04/13/18	OP69616	SX2502

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	FA53212-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
120-83-2	2,4-Dichlorophenol	ND		96.2	69.3	72	96.2	64.8	67	7	53-103/26
105-67-9	2,4-Dimethylphenol	42.9		96.2	180	143*	96.2	189	152*	5	43-90/27
95-48-7	2-Methylphenol	12.5		96.2	101	92*	96.2	97.7	89	3	43-90/28
	3&4-Methylphenol	6.7		192	134	66	192	119	58	12	36-88/28
108-95-2	Phenol	ND		96.2	41.9	44	96.2	33.6	35	22	19-56/35
88-06-2	2,4,6-Trichlorophenol	ND		96.2	89.6	93	96.2	80.8	84	10	59-107/23
85-68-7	Butyl Benzyl Phthalate	ND		96.2	84.3	88	96.2	77.1	80	9	65-112/24
86-74-8	Carbazole	67.2		96.2	178	115*	96.2	181	118*	2	59-113/21
132-64-9	Dibenzofuran	55.9		96.2	149	97	96.2	149	97	0	61-106/21
117-81-7	bis(2-Ethylhexyl)phthalate	ND		96.2	83.7	87	96.2	77.1	80	8	61-117/23

CAS No.	Surrogate Recoveries	MS	MSD	FA53212-2	Limits
367-12-4	2-Fluorophenol	45%	36%	19%	14-67%
4165-62-2	Phenol-d5	31%	24%	16%	10-50%
118-79-6	2,4,6-Tribromophenol	79%	74%	52%	33-118%
4165-60-0	Nitrobenzene-d5	72%	65%	66%	42-108%
321-60-8	2-Fluorobiphenyl	81%	73%	67%	40-106%
1718-51-0	Terphenyl-d14	89%	81%	65%	39-121%

(a) Insufficient sample for re-extraction. Dilution required due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA53212
Account: CSXT CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69617-MS	7G02081.D	1	04/16/18	FS	04/13/18	OP69617	S7G90
OP69617-MSD	7G02082.D	1	04/16/18	FS	04/13/18	OP69617	S7G90
FA53212-3	7G02080.D	1	04/16/18	FS	04/13/18	OP69617	S7G90
FA53212-3	4D3865.D	1	04/18/18	FS	04/13/18	OP69617	S4D148

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA53212-1, FA53212-2, FA53212-3

CAS No.	Compound	FA53212-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	ND [a]		40	26.0	65	40	27.8	70	7	43-110/30
83-32-9	Acenaphthene	ND		20	14.6	73	20	15.0	75	3	56-101/24
208-96-8	Acenaphthylene	ND		20	13.2	66	20	13.6	68	3	54-104/25
120-12-7	Anthracene	ND		10	6.9	69	10	7.2	72	4	67-106/21
56-55-3	Benzo(a)anthracene	ND		10	7.1	71	10	7.6	76	7	65-106/22
50-32-8	Benzo(a)pyrene	ND		10	6.8	68	10	7.2	72	6	58-111/23
205-99-2	Benzo(b)fluoranthene	ND		10	7.7	77	10	8.3	83	8	59-113/24
191-24-2	Benzo(g,h,i)perylene	ND		10	6.9	69	10	7.3	73	6	43-112/24
207-08-9	Benzo(k)fluoranthene	ND		10	7.3	73	10	7.9	79	8	58-110/23
218-01-9	Chrysene	ND		10	7.7	77	10	8.3	83	8	66-107/22
53-70-3	Dibenzo(a,h)anthracene	ND		10	6.9	69	10	7.3	73	6	40-113/25
206-44-0	Fluoranthene	ND		20	14.4	72	20	15.4	77	7	64-110/22
86-73-7	Fluorene	ND		20	15.0	75	20	15.5	78	3	60-106/24
193-39-5	Indeno(1,2,3-cd)pyrene	ND		10	7.0	70	10	7.5	75	7	44-112/25
91-57-6	2-Methylnaphthalene	ND		20	12.7	64	20	13.1	66	3	53-105/26
91-20-3	Naphthalene	ND		20	13.9	70	20	14.0	70	1	56-105/27
85-01-8	Phenanthrene	ND		20	14.8	74	20	15.5	78	5	62-105/22
129-00-0	Pyrene	ND		20	14.7	74	20	15.7	79	7	62-109/21

CAS No.	Surrogate Recoveries	MS	MSD	FA53212-3	FA53212-3	Limits
118-79-6	2,4,6-Tribromophenol	66%	69%	94% [b]	78% [b]	33-118%
4165-60-0	Nitrobenzene-d5	71%	73%	80% [b]	64% [b]	42-108%
321-60-8	2-Fluorobiphenyl	70%	73%	79% [b]	58% [b]	40-106%
1718-51-0	Terphenyl-d14	76%	81%	85% [b]	62% [b]	39-121%

(a) Result is from Run #2.
(b) Surrogate recoveries corrected for actual spike amount.

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:					04/11/18		04/11/18
Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	14	14				
Antimony	6.0	1	1				
Arsenic	10	1.3	1.3	-1.6	<10	-1.4	<10
Barium	200	1	1				
Beryllium	4.0	.2	.2				
Cadmium	5.0	.2	.2				
Calcium	1000	50	50				
Chromium	10	1	1				
Cobalt	50	.2	.2				
Copper	25	1	1				
Iron	300	17	17				
Lead	5.0	1	1.1	-0.20	<5.0	-0.10	<5.0
Magnesium	5000	35	35				
Manganese	15	.5	1				
Molybdenum	50	.3	.3				
Nickel	40	.4	.4				
Potassium	10000	200	200				
Selenium	10	2.4	2.9				
Silver	10	.7	.7				
Sodium	10000	500	500				
Strontium	10	.5	.5				
Thallium	10	1.1	1.4				
Tin	50	.9	1				
Titanium	10	.5	1				
Vanadium	50	.5	.6				
Zinc	20	3	4.4				

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/11/18					04/11/18	
Metal	FA53156-2 Original	DUP	RPD	QC Limits	FA53156-2 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	0.0	0.0	NC	0-20	0.0	1910	2000	95.5	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	1.1	1.8	48.3 (a)	0-20	1.1	458	500	91.4	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	anr								

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	FA53156-2 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.0	1960	2000	98.0	2.6	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	1.1	466	500	93.0	1.7	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin	anr					
Titanium						
Vanadium	anr					
Zinc	anr					

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	1910	2000	95.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	469	500	93.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	FA53156-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	1.10	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin	anr			
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33583
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	Sample ml	Final ml	FA53156-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10			101.8	0.2	5	100	101.8	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	1.1	1.078	45.7	0.2	2.5	50	89.2	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33583: FA53212-1F, FA53212-2F, FA53212-3F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3	-1.7	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	17	17		
Lead	5.0	1	1.1	0.20	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18 04/11/18

Metal	FA53205-2F Original	DUP	RPD	QC Limits	FA53205-2F Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	1890	2000	94.5	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	2.2	1.4	44.4 (a)	0-20	2.2	465	500	92.6	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	FA53205-2F Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	1950	2000	97.5	3.1	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	2.2	476	500	94.8	2.3	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1870	2000	93.5	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	470	500	94.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	FA53205-2F Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	2.20	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA53212
Account: CSXT - CSX Transportation
Project: AGMININD: 9415829/ENV53216, Former Indiana Creosote Co, Bloomington, IN

QC Batch ID: MP33584
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/11/18

Metal	Sample ml	Final ml	FA53205-2F Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10			95.6	0.2	5	100	95.6	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	2.2	2.156	44.5	0.2	2.5	50	84.7	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP33584: FA53212-1, FA53212-2, FA53212-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

APPENDIX C

Waste Disposal Documentation

DNAPL

(5) #11011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: I N D 9 8 4 8 6 6 3 4 3
2. Page 1 of: 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 001349851 GBF

GENERATOR

5. Generator's Name and Mailing Address:
CSX Transportation, Inc.
500 Water Street, J-275
Jacksonville, FL 32202
Attn: Kim Vaughn 800-232-0144
Generator's Phone:

Generator's Site Address (if different than mailing address):
CSX Transportation, Inc.
240 Country Club Drive
Bloomington, IN 47403

6. Transporter 1 Company Name: Tonawanda Tank
U.S. EPA ID Number: NYD 097644801

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CWM Chemical Services, L.L.C.
1550 Balmer Road
Model City, NY 14107
Facility's Phone: 716-286-1550
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous Waste, Liquid, N.O.S., 9, NA3082, PGIII (D037, D042) RQ: D037 NY302414	4	dm	200	gal	D023 D026	D024 D037	D025 B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY302414- Groundwater with DNAPL SR# 969047 ERG# 171
ER Service contracted by Waste Management with Chemtrec 8164860
CSX Emergency Contact: PSCC 800-232-0144 #20110769 4 PJKASC

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Griggs OF MCAGOS
Signature: Bryant Griggs on behalf of CSXT
Month: 10 Day: 28 Year: 11

INT'L

16. International Shipments ☒ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: NELSON E. KENNEDY
Signature: Nelson E Kennedy
Month: 10 Day: 28 Year: 11

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard La Bendo
Signature:
Month: 11 Day: 04 Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

#11013

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984866343	1	800-424-9300	001349858 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX Transportation, Inc.
500 Water Street, J-275
Jacksonville, FL 32202
Attn: Kim Vaughn
Generator's Phone: 800-232-0144

Generator's Site Address (if different than mailing address)
CSX Transportation, Inc.
240 Country Club Drive
Bloomington, IN 47403

6. Transporter 1 Company Name: Tonawanda Tank
U.S. EPA ID Number: NYD 097644801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM Chemical Services, L.L.C.
1550 Balmer Road
Model City, NY 14107
Facility's Phone: 716-286-1550
U.S. EPA ID Number: NYD049836679

9a HM	9b U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11 Total Quantity	12. Unit Wt./Vol	13. Waste Codes
X	1. RQ, Hazardous Waste, Liquid, N.O.S., 9, NA3082, PGIII (D037, D042) RQ: D037 NY302414	1	dm	54	gal	D023 D024 D025 D026 D037 B
	2					
	3					
	4					

14. Special Handling Instructions and Additional Information
1. NY302414- Groundwater with DNAPL
ER Service contracted by Waste Management with Chemtrec
CSX Emergency Contact: PSCC 800-232-0144
#20110820RJKASC
ERG #171
8764976 1

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Griggs of ARCADIS
Signature: BG on behalf of CSXT
Month 12 Day 14 Year 2011

INT'L

16 International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joe Barker
Signature: Joe B
Month 12 Day 14 Year 11

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jarrod Cramer
Signature
Month 12 Day 27 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

#1205055

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 3	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD 988446666334433	11	(800) 424-9300	001992930 4 GBF

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN: PAUL GIZZARELLI
500 WATER ST J275
JACKSONVILLE FL 32202-4423
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSXT TRANSPORTATION
200 COUNTRY CLUB DR
BLOOMINGTON IL 61704

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
Thomas Wade Trucking

U.S. EPA ID Number
NYHD 079 [illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1[illegible]

U.S. EPA ID Number
NYD 004 989 366 677 9

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA9189, III, (D037, D043), RQ D037 NY302414 141	3	dm	1125	gal	D023 D024 D025 D026 D037
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: NY302414 : GROUNDWATER WITH DNAPL ERG# 171 CSX Emergency Contact: 1-800-232-0144
ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SERVICE REQUEST # 20120537 PEK-A56

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Earnest Ervin
Signature: [illegible] OF RAILROAD ENGINEER CSXT
Month: 8 Day: 15 Year: 2012

16. International Shipments
☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Nate Rowan
Signature: Nate Rowan
Month: 08 Day: 15 Year: 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Richard Lee Mercer
Signature:
Month: 08 Day: 28 Year: 12

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

#1200556

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I NYD 99 88 44 88 66 66 33 44 33	11	(800) 424-9300	009784603 JJK

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Paul Kuzanski
500 WATER ST J275
JACKSONVILLE FL 32202-4433
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
2400 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name
Transportation Trucking

U.S. EPA ID Number
NYD 987 [illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550

U.S. EPA ID Number
NYD 004 988 366 779

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, HAZARDOUS WASTE, LIQUID, N.O.S., 9, NA3082, III, (D037, D042), RQ D037 NY303964	14	dm	612	gal	D023 D026	D024 D037	D025 B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY303964 = GROUNDWATER WITH DNAPL ERG# 171 #20120690 0 PJK=ASC
ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR# 993415
CSX Emergency Contact #1-800-232-0144 $1157.70

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Griggs on behalf of CSX Transportation, Inc. Signature: [signature] Month: 11 Day: 14 Year: 2012

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BRUCE CLEAVER Signature: [signature] Month: 11 Day: 14 Year: 12

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kevin Mead Signature: [signature] Month: 11 Day: 28 Year: 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

#13900101 CWM CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID Number: NYD988666483 | 2. Page 1 of 1 | 3. Emergency Response Phone: (800)424-9300 | 4. Manifest Tracking Number: 000988026 GBF

5. Generator's Name and Mailing Address: CSX TRANSPORTATION Attn: Paul Kurzanski, 500 WATER ST J275, JACKSONVILLE FL 32202-4423

Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address): CSX TRANSPORTATION, 2484 COUNTRY CLUB DR, BLOOMINGTON IL 61704

6. Transporter 1 Company Name: T Brandeis Tank — U.S. EPA ID Number: INYD065144801

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CWM CHEMICAL SERVICES, L.L.C., 1550 BALMER RD, MODEL CITY NY 14107 — U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 286-5560

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, HAZARDOUS WASTE, LIQUID, N.O.S. (Naphthalene), 9, NA9189, III, (D037, D042), RQ D037 NY8039564	0007	DM	300#	G	D023 D024 D025 D026 D037
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: 1. NY303964 - GRO A WITH DNAPL ERG# 171 — GROUNDWATER WITH DNAPL — #13900125 PK-AIC

ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR#

CSX Emergency Contact: 1-800-232-0144

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter I hereby certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature: [illegible] on behalf of CSX Transportation — Month 10 Day 04 Year 2013

16. International Shipments: Import to U.S. / Export from U.S. — Port of entry/exit: — Date leaving U.S.:

Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Vanderhoff — Signature: [illegible] — Month 10 Day 04 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space: Quantity / Type / Residue / Partial Rejection / Full Rejection

18b. Alternate Facility (or Generator) — U.S. EPA ID Number — Manifest Reference Number:

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H141 2. H141 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Robert LaPierre — Signature: [illegible] — Month 10 Day 04 Year 13

EPA Form 8700-22 (Rev. 3-05). Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CWMI

#130002

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-003

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 424- 9300	005983010 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Paul Kurzanski
500 WATER ST J275
JACKSONVILLE FL 32202-4423
Generator's Phone: (800) 232- 0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: TONAWANDA TANK TRANSPORT SERVICES, INC. — U.S. EPA ID Number: NYD 049836679

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286- 1550

U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ,NA3082,HAZARDOUS WASTE, LIQUID, N.O.S.,9, III,(D037, D042),RQ:D037 NY303964	5	DM	91	GAL	D023 D024 D025 D026 D037 B
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY303964 - GROUNDWATER WITH DNAPL ERG# 171 20130201 PJK-ASC
ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR# 999737
CSX EMERGENCY CONTACT NUMBER: 1-800-232-0144

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: RANDALL WOLFRUFF "AGENTS ON BEHALF OF CSXT" — Signature: [signature] — Month 2 Day 26 Year 2013

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Doug Pettit — Signature: [signature] — Month 2 Day 26 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Richard LaBenz — Signature: [signature] — Month 03 Day 08 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

(2) #1130003

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD988446666333	1	(800) 424-9300	002073494 GBF

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Paul Kuzanski
500 WATER ST J275
JACKSONVILLE FL 32202-4423
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IL 61704

6. Transporter 1 Company Name: Tonawanda Tank Transport Service, INC. — U.S. EPA ID Number: NYD 097644801

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836675

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D037, D042), RQ D037 NY303964	9	dm	287	gal	D023 D026	D024 D037	D025 B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY303964 - GROUNDWATER WITH DNAPL ERG# 171 20130603PJK-ASC
ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR# 1006231
CSX Emergency Contact Number: 1-800-232-0144 PLG 1111

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Grigg for ARCADIS on behalf of CSXT — Signature: BG — Month 5 — Day 24 — Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dave Pettit — Signature — Month 5 — Day 24 — Year 13
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18a
Printed/Typed Name: Lee Brown — Signature — Month 6 — Day 4 — Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

#130023 CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 424- 9300	002073229 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Paul Kurzanski
500 WATER ST J275
JACKSONVILLE FL 32202-4423
Generator's Phone: (600) 232- 0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: Tonawanda Tank Transport Service, Inc — U.S. EPA ID Number: NYD097644801

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286- 1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ,NA3082,HAZARDOUS WASTE, LIQUID, N.O.S.,9, III,(D037, D042),RQ:D037 NY303964	14	dm	574	gal	D023 D026	D024 D037	D025 B
	2.							
	3.							
	4							

14. Special Handling Instructions and Additional Information
1. NY303964 - GROUNDWATER WITH DNAPL ERG# 171
ER SERVICE CONTRACTED BY WASTE MANAGEMENT CCN24117 SR# 1010687
CSX Emergency Contact No.: 1-800-232-0144 #20130835700-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Griggs of ARCADIS on behalf of CSXT, Inc — Signature: Bryant Griggs on behalf of CSXT, Inc — Month 08 Day 07 Year 2013

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BRUCE CLEPPER — Signature — Month 08 Day 07 Year 2013

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Frank Lobenz — Signature — Month 08 Day 19 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CWM

#130024

Please print or type. (Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	IND984866343	1	800-232-0144	002232100 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
(800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

Generator's Phone:

6. Transporter 1 Company Name: Tonawanda Tank Transport Service, Inc
U.S. EPA ID Number: NYD097644801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
(716) 286-1550

U.S. EPA ID Number: NYD049836679

Facility's Phone:

Sp. Hnd	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S../ 9, III, (D018, D037) NY304425	8	dm	3,200	P	D018	D023	D024
						D025	D026	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY304425 - SOIL AND ROCK WITH DNAPL ERG# 171 SERVICE REQUEST # 1011084 811621GB
CSX Emergency Contact # 1800-232-0144
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract CCN24117 #2013090660D-ASC

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Eckes oF ARLANS on behalf of CSXTI
Signature: BE by oP ARLANS on behalf of CSX Transportation Inc
Month 08 Day 26 Year 2013

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Barry Wadkoff
Signature: Barry Wadkoff
Month 08 Day 26 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Richard LaBeno
Signature
Month 08 Day 30 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

CWM

(1)

#130060

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 424-9300	002232347 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: Tonawanda Tank Transport Company
U.S. EPA ID Number: NYD097644801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), RQ: BENZO(B)FLUORANTHENE, BENZO(A)PYRENE NY304598	18	DM	684	Gal	D018	D023	D024
						D025	D026	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY304598 - DNAPL AND WATER ERG# 171 SERVICE REQUEST # 10/5012
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract CCN24117 #201310392 DD-Asc 816259
CSX Emergency Contact Number: 1-800-232-0144

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bryant Griggs of ARCADIS on behalf of CSXT
Signature: BT Griggs ARCADIS on behalf of CSXT
Month: 10 Day: 19 Year: 2013

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: BRUCE CLEPPER
Signature: Bruce D Clepper
Month: 10 Day: 19 Year: 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rich LaBend
Signature:
Month: 10 Day: 29 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CWMI

#H300662

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 3	Emergency Response Phone	4. Manifest Tracking Number
	NYD988486663433	11	(800) 232-0144	000223265 GBF

5. Generator's Name and Mailing Address: CSX TRANSPORTATION Attn: Daniel Dyer, 3 1 EAST GEORGIA ST, INDIANAPOLIS IN 46204

Generator's Site Address (if different than mailing address): CSX TRANSPORTATION, 240 COUNTRY CLUB DR, BLOOMINGTON IL 61704

Generator's Phone: (800) 232-0144 RQWJ

6. Transporter 1 Company Name: Tonawanda Tank Transport Services, Inc

U.S. EPA ID Number: NYD099764801

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: CWM CHEMICAL SERVICES, LLC, 1550 BALMER RD, MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836663

Facility's Phone: (716) 286-1500

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), RQ, BENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(A)PYRENE NY304598	111	DM	1944	GAL	D018 D023 D024 D025 D026	B B	4
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

1. NY304598 - DNAPL AND WATER ERG# 171 SERVICE REQUEST # 8463345

EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 # 20131177808-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	12	17	13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.

Transporter signature (for exports only):				
Transporter 1 Printed/Typed Name: Doug Pettit	Signature	Month	Day	Year
Transporter 2 Printed/Typed Name	Signature	Month 12	Day 17	Year 13

17. Transporter Acknowledgment of Receipt of Materials

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

1. H141	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	12	20	13

Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

CWM

(1) #140002

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 232-0144	002232854 GBF

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: Tonawanda Tank Transport Company
U.S. EPA ID Number: NYD 097644801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD 049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), RQ: BENZO(B)FLUORANTHENE, BENZO(A)PYRENE NY304598	27	DM	960	Gal	D018	D023	D024
						D025	D026	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY304598 - DNAPL AND WATER ERG# 171 LDR REC. 10/29/13
8166400
SERVICE REQUEST #
EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 #20140371000-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

GENERATOR

Generator's/Offeror's Printed/Typed Name: Bryant Griggs of ARCADIS on behalf of CSXT
Signature: BT Griggs of ARCADIS on behalf of CSXT
Month: 5 Day: 30 Year: 2014

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: NELSON P. KENNEDY
Signature: Nelson E Kennedy
Month: 5 Day: 30 Year: 14

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Michael Finnegan
Signature
Month: 6 Day: 6 Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

(7)

3140508377 CYMM CYMM #449032

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD988448866663344 33	11	(800) 232-0144	000223288 79 GBF

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN: Daniel Dwyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
Generator's Phone: (800) 232-0144

Generator's Site Address (if different than mailing address)
CSXT TRANSPORTATION
2400 COUNTRY CLUB DR
BELCOURT ND 58316

6. Transporter 1 Company Name
Transamerican Track Transport Services, Inc.
U.S. EPA ID Number
NYD077664801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, LLC
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1500
U.S. EPA ID Number
NYD049933667789

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), RQ, BENZO(B)FLUORANTHENE, BENZO(A)PYRENE NY3041598	5	DM	99	G K	D018 D023 D024 D025 D026 B		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1: NY384598 - BNAPL AND WATER ERG# 171 LDR REC. 10/29/13 SERVICE REQUEST #
EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 2014 0446 DD=ASE 9166491H

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] WOODWARD
Signature: [illegible] OF AGENT ON BEHALF OF CSXT
Month: 07 Day: 22 Year: 14

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bill McQueen
Signature: Bill McQueen
Month: 7 Day: 23 Year: 14

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] Mcgann
Signature:
Month: 07 Day: 24 Year: 14

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR
TRANSPORTER 1
TRANSPORTER 2
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

CWMI

MDW # 14 8004

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NDS466633	1 1	(800)232-0144	009258180 7 GBF

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
CSX TRANSPORTATION Attn: Daniel Dyer
3100 SPORTS ARENA BLVD
INDIANAPOLIS IN 46204
Generator's Phone: (317) 226-7451 (800)232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
2400 COUNTY ROAD 800 E
BLOOMINGTON IN 47403

6. Transporter 1 Company Name
Tonawanda Tanks Transport Srvc., Inc.
U.S. EPA ID Number
NYD087644801

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1580
U.S. EPA ID Number
NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, 9, III, (D018, D023, D024, D025, D026), RQ, BENZO(B)FLUORANTHENE, BENZO(A)PYRENE	2 1 1	DM	6377	G	D018 D023 D024 D025 D026 B B
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
81622904
CSX APPROVAL # 2014 08461 DS-ASE
1. NY304598 - DNAPL AND WATER ERG# 171 LDR REC. 10/28/13 SERVICE REQUEST # 1037745
EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 CSX PROJECT # 9415829

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
TERRELL WOODARD FOR GENERATOR		11	17	14

16. International Shipments
Import to U.S. Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Jesse Gross		11	17	14

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy
18a. Discrepancy Indication Space
Quantity Type Residue Partial Rejection Full Rejection

18b. Alternate Facility (or Generator)
Manifest Reference Number:
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		11	17	14

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

CWMI

#150001

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 232-0144	002581808 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
Generator's Phone: 317-267-4151 (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: Tonawanda Tanks Transport Srvc., Inc. — U.S. EPA ID Number: NYD087644801

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13 Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), ~~RQ, BENZO(B)FLUORANTHENE, BENZO(A)PYRENE~~ NY304598	21	DM	~625	6AL	~~D042~~ ~~D018~~ D025	D023 D026	D024 B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
201505731 DD-ASC
81668294
1. NY304598 - DNAPL AND WATER ERG# 171 LDR REC. 10/29/13 SERVICE REQUEST # 1049505
EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 CSX Project # 9415829

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
RANDALL WOODRUFF of CSX TRANSPORTATION	RANDALL WOODRUFF ON BEHALF OF CSX TRANSPORTATION	5	20	15

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
NELSON E. KENNEDY	Nelson E. Kennedy	5	20	15
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy
18a Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month / Day / Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4
H141			

20 Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
Michael Finnegan		5	26	15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

#150004 CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	I N D 9 8 4 8 6 6 3 4 3	1	(800) 232-0144	002581809 GBF

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION Attn: Daniel Dyer
31 EAST GEORGIA ST
INDIANAPOLIS IN 46204
Generator's Phone: 317-267-4151 (800) 232-0144

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN 47403

6. Transporter 1 Company Name: Tonawanda Tanks Transport Srvc., Inc. — U.S. EPA ID Number: NYD097644801

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (D018, D037), ~~RQ, BENZO(B)FLUORANTHENE, BENZO(A)PYRENE~~ NY304598	4	DM	160	GAL	~~D018~~ D023 D025	D024 D026	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
81668775 2015075 57 DD-ASC
1. NY304598 - DNAPL AND WATER ERG# 171 LDR REC. 10/29/13 SERVICE REQUEST # 1054455
EMERGENCY RESPONSE NUMBER CONTRACTED BY CSX 800-232-0144 CSX PROJECT # 9415829

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Randall Woodruff AGENT ON BEHALF OF CSXT TRANSPORTATION — Signature: AGENT ON BEHALF OF CSXT — Month 6 Day 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joe Baum — Signature — Month 08 Day 06 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Michael Finney — Signature — Month 08 Day 15 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

283390

#150007

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984966343	1	(800) 232-0144	015120611 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
21 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
(317) 267-4151
Generator's Phone:

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name
ENVIROSERVE, JV (216)642-1311
U.S. EPA ID Number
OHD017230500

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800
U.S. EPA ID Number
OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	5	~~DF~~ DM	~200	gal	D018 D023 D029 D035 D036 D037
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. WPS# 46797 ERG# 171 SG 1.00 SEE SUPPLEMENT
2015 Z145700-ASC
EMERGENCY RESPONSE NUMBER CONTRACTED BY
CSX 800-232-0144
CSX PROJECT # 9415829

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Thais Tai Hibbard (ARCADIS) On behalf of CSXT	on behalf of CSXT	11	10	15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
GARY GREENAWALT		11	10	15
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
Diane Delaney		11	12	15

5

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

288115

#150008

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Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984866343	1	(800) 232-0144	015120612 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
(317) 267-4151
Generator's Phone

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
290 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name
ENVIROSERVE, JV (316) 642-1311

U.S. EPA ID Number
OHD017330840

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
(440) 748-5800
Facility's Phone

U.S. EPA ID Number
OHD064158678

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	4	DM	105	G	D018 D021 D024 D025 D026 D027
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
SEE SUPPLEMENT
1. WPSH 8A797 ERG# 171 50 1.00
CSX APPROVAL # 201522852 DD-ASC
EMERGENCY RESPONSE NUMBER CONTRACTED BY
CSX 800-232-0144
CSX PROJECT # 9415829

15 GENERATOR'S/OFFEROR'S CERTIFICATION. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF OF ARCADIS ON BEHALF OF CSXT
Signature: OF ARCADIS ON BEHALF OF CSX
Month: 12 Day: 14 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GARY GREENAWALT
Signature: Gary Greenawalt
Month: 12 Day: 14 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18 Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19 Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.

Printed/Typed Name: Heather Baker
Signature: Heather Baker
Month: 12 Day: 17 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

296496

#16000

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984866343	1	(800) 232-0144	016163882 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403
317-267-4151

6. Transporter 1 Company Name
ENVIROCHEM, INC

U.S. EPA ID Number
INDOO7[illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
HOSS INCINERATION SERVICES, LLC
24700 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

U.S. EPA ID Number
OHD000816363

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S. (BENZENE, DEGRADED (CREOSOTE)), 9, PG III, ERG, 171	16	DM	450	G	D018
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
[illegible] PCS PROJECT #0A3822

CSX APPROVAL # 20161435G DD ASC

CSX EMERGENCY RESPONSE # 800-232-0144

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF on behalf of CSX
Signature: [signature] on behalf of CSX
Month: 6 Day: 14 Year: 16

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GARY GREENAWALT
Signature: [signature]
Month: 6 Day: 14 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name: JAMES E. SPARROW
Signature: [signature]
Month: 6 Day: 16 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

~~299613~~ 300517 #160002

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND984866343
2. Page 1 of: 1
3. Emergency Response Phone: (800) 232-0144
4. Manifest Tracking Number: 016356087 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403
317-267-4151

6. Transporter 1 Company Name: ENVIROSERVE, JV
U.S. EPA ID Number: OHD017730540

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800
U.S. EPA ID Number: OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	7	DM	190	G	D018 D026 D037 D042
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. WPSH 46797 ERGH 171 SG 1.00 46797-A
ENV000123577
CSX EMERGENCY RESPONSE # 800-232-0144
CSX PROJECT # 9415829
CSX APPROVAL # 201617795 DD-45C

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF ON BEHALF OF CSX
Signature: ON BEHALF OF CSX
Month: 9 Day: 6 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID MEIER
Signature:
Month: 09 Day: 06 Year: 16
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Heather Baker
Signature:
Month: 09 Day: 08 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

305490 #160003

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
[illegible]	1	(800) 232-0144	016493772 JJK

GENERATOR

5. Generator's Name and Mailing Address: TRANSPORTATION ATTN D DYER [illegible]
Generator's Site Address (if different than mailing address): [illegible]
Generator's Phone: 317-267-4151

6. Transporter 1 Company Name: ENVIROSERVE, JV — U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name: Ross Transportation Services, Inc — U.S. EPA ID Number: OHD 980614374

8. Designated Facility Name and Site Address: [illegible] SERVICES, INC. [illegible] 44044
Facility's Phone: [illegible] 240-5800 — U.S. EPA ID Number: [illegible]

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10 Containers No.	10 Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. [illegible] HAZARDOUS [illegible] LIQUID, N.O.S., [illegible] (PESTICIDE), 9, PG III, NA [illegible]	4	DM	145	G	D010 D024 D027
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
CSX PROJECT # 9415829
ENV 0000123577
CSX EMERGENCY RESPONSE # 800-232-0144
2016 232 10 DD-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: KANDALL WOODRUFF ON BEHALF OF CSX — Signature: [signature] ON BEHALF OF CSX — Month 12 Day 1 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GARY GREENAWALT — Signature: [signature] — Month 12 Day 1 Year 16

Transporter 2 Printed/Typed Name: CHRIS FOA — Signature: [signature] — Month 12 Day 8 Year 16

DESIGNATED FACILITY

18 Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Rebecca Wunker — Signature: [signature] — Month 12 Day 8 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

316636 #170001

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984866343	1	(800) 232-0144	017369365 JJK

GENERATOR

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
J1 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403
(317) 267-4151

6. Transporter 1 Company Name: ENVIROSERVE, JV — U.S. EPA ID Number: OHD017730540

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800
U.S. EPA ID Number: OHD048415665

9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
X	1 NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	10	DM	263	G	D018 D026 D037 D042
	2					
	3					
	4					

14. Special Handling Instructions and Additional Information
CSX Project # 9415829
1. WPS# 46797 ERG# 171 SG 1.00 46797-A
ENV0000123577
CSX Emergency Response # 800-232 0144 20170885 DD-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Randall Woodruff ON BEHALF OF CSX — Signature: ON BEHALF OF CSX — Month 5 Day 23 Year 17

INTL

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Joel Ferry		05	23	17
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Amber Phillips — Signature: — Month 5 Day 25 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

321843

#170002

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IND984866343
2. Page 1 of 1
3. Emergency Response Phone: (800) 232-0144
4. Manifest Tracking Number: 017868628 JJK

5. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name: ENVIROSERVE J.V.
~~ROSS TRANSPORTATION SERVICES, INC.~~
(216) 642-1311
U.S. EPA ID Number: OHD077730540

7. Transporter 2 Company Name: Ross Transportation Services
U.S. EPA ID Number: OHD980614574

8. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	4	DM	120	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. WPS# 46797 ERG# 171 SG 1.00 ~~H, 467~~
CSX Project # 9415829
WPS Approval # 40777-B

201716568DD-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jennie Woodard ON BEHALF OF CSXT
Signature: ON BEHALF OF CSXT
Month: 8 Day: 24 Year: 17

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GARY GREENAWALT
Signature:
Month: 8 Day: 24 Year: 17

Transporter 2 Printed/Typed Name: Dave Palmer
Signature:
Month: 8 Day: 31 Year: 17

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18b
Printed/Typed Name: Rebecca Weber
Signature:
Month: 9 Day: 1 Year: 17

Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

GENERATOR | TRANSPORTER 1 | TRANSPORTER 2 | DESIGNATED FACILITY

325365

170003

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	IND984866343	1	(800) 232-0144	018209580 JJK

GENERATOR

5. Generator's Name and Mailing Address

CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name: ENVIROSERVE, JV — U.S. EPA ID Number: OHD017730540

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

U.S. EPA ID Number: OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	4	DM	159	GAL	D018 D026 D037 D042
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

1. WPS# 46797 ERG# 171 SG 1.00 46797-A, 46797-B

CSX PROJECT # 9415829
WPS APPROVAL # 46797-B
CSX APPROVAL # 20171964 2 DD-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF ON BEHALF OF CSX — Signature: [signature] ON BEHALF OF CSX — Month: 11 Day: 20 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID MEIER — Signature: [signature] — Month: 11 Day: 20 Year: 17

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Joey Franklin — Signature: [signature] — Month: 11 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

339580

#180001

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
IND984866343	1	(800) 232-0144	018838727 JJK

GENERATOR

5. Generator's Name and Mailing Address

CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name — U.S. EPA ID Number

ENVIROSERVE,JV — OHD017730540

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	5	DM	193	G	D018 D026 D037 D042
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

1. WPS# 46797 ERG# 171 SG 1.00 46797-A, 467 97-B, 46797-C

CSX PROJECT # 9415829
CSX APPROVAL # 20180605 DD-ASC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Hannah Woodrum — ON BEHALF OF CSX — Signature — ON BEHALF OF CSX — Month 06 Day 14 Year 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: VERICO BOMPAN — Signature — Month 06 Day 14 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jayne Fitz — Signature — Month 06 Day 15 Year 18

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

3437850 #180102

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
				018520795 JJK

GENERATOR

5 Generator's Name and Mailing Address

EAST GEORGIA ST
INDIANAPOLIS, IN 46204

Generator's Phone:

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D BYER
340 COUNTRY CLUB DR
BLOOMINGTON, IN 47401

6. Transporter 1 Company Name | U.S. EPA ID Number

7 Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address | U.S. EPA ID Number

RVICES, INC.
FION, OH 44044
(440) 798-5900

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1 (BENZENE, DEGRADED WASTE, LIQUID, N.O.S., RQ, (D018)	6		156	GAL	
	2					
	3.					
	4					

14. Special Handling Instructions and Additional Information

CSX PROJECT # 9415829

D018 07541 DD-DSC

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month 9 | Day 14 | Year 18

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month 9 | Day 14 | Year 18

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H040	2	3	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Jayne Fitz | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

348542 #180003

Please print or type. (Form designed for use on elite 12-pitch typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: IND984866343	2. Page 1 of 1	3. Emergency Response Phone: (800) 232-0144	4. Manifest Tracking Number: 018519204 JJK

GENERATOR

5. Generator's Name and Mailing Address:
CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
(317) 267-4151
Generator's Phone:

Generator's Site Address (if different than mailing address):
CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name: ENVIROSERVE,JV — U.S. EPA ID Number: OHD01773[illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address:
ROSS INCINERATION SERVICES, INC.
36790 SILES ROAD
GRAFTON, OH 44044
(440) 748-5800
Facility's Phone: — U.S. EPA ID Number: OHD048415665

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S. (BENZENE, DEGRADED CREOSOTE), 9, PG III, RQ, (D018)	3	DM	85	G	D018 D026 D037 D042
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. WPS# 46797 ERG# 171 SG 1.00 46797-A, 467 97-B, 46797-C CSX AUTH # 20181259 DD-AS-C
CSX PROJECT # 9415829

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) is true. (if I am a small quantity generator) is true.

Generator's Printed/Typed Name	Signature	Month	Day	Year
DANIEL T. DOORLEY ON BEHALF OF CSX	[signature] ON BEHALF OF CSX	12	7	18

TRANSPORTER INT'L

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Ken McIntosh	[signature]	12	7	18
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number: U.S. EPA ID Number:
18b. Alternate Facility (or Generator)
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H040 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name	Signature	Month	Day	Year
Brandt Hinsley	[signature]	12	17	18

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Drilling & Purge Water

MDNF 120501

20120393 3 PJK-ASC

Industrial Waste Disposal Manifest

Profile Number: 102220IN

Expiration Date: 8/4/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name: CSX Transportation, Inc.

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: 800-232-0144 PSCC

Waste Name: Drilling Fluids in On site temp tanks

Est. Volume: 1850 Gal

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 11,18

Authorized Signature

6/5/12

Date (MM/DD/YY)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			6-Smart GSX 15-12

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.				1950	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 6 Day 13 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alan L Fisher — Signature — Month 6 Day 15 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

DESIGNATED FACILITY'S COPY

WASTE MANAGEMENT

2160247

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Phn 317-745-2879

Original
Ticket# 1230133

Customer Name MW MATL CSI 10222041N MW MATL
Ticket Date 06/15/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10222041N
Destination
PO
Profile 10222041N (DRILLING FLUIDS)
Generator 141-CSI 240 COUNTRY CLUB DR CSI TRANSPORTATION INC

Carrier National Environmental Carrier
Vehicle# D999
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	64480 lb
In	06/15/2012 12:56:14	Testing1	csm		Tare	42040 lb
Out	06/15/2012 12:56:16		csm		Net	22360 lb
					Tons	11.18

Comments SCHEDULED FOR 1:00

	Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Gal	100	2479.00	Gal				MONROE-53
2	MISC-WASHOUT LOAD	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120558

Industrial Waste Disposal Manifest

Profile Number: 102220IN

Expiration Date: 8/4/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name: CSX Transportation, Inc.

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: 800-232-0144 PSCC

Waste Name: Drilling Fluids in On site temp tanks

Est. Volume: 3,000 gal

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 12.07

CS

Authorized Signature

12-6-12

Date (MM/DD/YY)

2012 07124 PJK-ASC

WASTE MANAGEMENT

7717591

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1257335

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 12/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/06/2012 10:06:32	Inside 1	ces		Gross	49940 lb
Out	12/06/2012 10:35:12	Inside 1	ces		Tare	25800 lb
					Net	24140 lb
					Tons	12.07

Comments SCHEDULED FOR 11:00 AM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Liquid Unspec.-Gal	100	2676.00	Gal				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#120559

Industrial Waste Disposal Manifest

Profile Number: 102220IN

Expiration Date: 8/4/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name: CSX Transportation, Inc.

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: 800-232-0144 PSCC

Waste Name: Drilling Fluids in On site temp tanks

Est. Volume: ~850 Gallons

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 3.81

CD
Authorized Signature

12-6-12
Date (MM/DD/YY)

2012 07125 PJK-ASC

WASTE MANAGEMENT

7717660

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1257435

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 12/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410 Volume
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	12/06/2012 14:31:12	Inside 1	ces		Gross	33420 lb
Out	12/06/2012 14:31:12		ces		Tare	25800 lb
					Net	7620 lb
					Tons	3.81

Comments SCHEDULED FOR 2:00 PM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Gal	100	945.00	Gal				MONROE-53
2	WSUL-WASHOUT LOAD	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

WASTE MANAGEMENT

7853022

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1391407

Customer Name WM METL CSX 1022201N WM METL
Ticket Date 05/15/2013
Payment Type Credit Account
Manual Ticket
Hauling Ticket#
Route
State Waste Code
Manifest 1022201N
Destination
PO
Profile 1022201N (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 412 Volume
Container
Driver
Check#
Billing # 0001591
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	05/15/2013 09:46:50	Inside 1	ces		Gross	46300 lb
Out	05/15/2013 09:46:50		ces		Tare	25800 lb
					Net	20500 lb
					Tons	10.25

Comments SCHEDULED FOR 10:00 AM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Gal	100	2273.00	Gal				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WMT-N

#130004

Industrial Waste Disposal Manifest

Profile Number: 102220IN

Expiration Date: 8/4/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation, Inc.

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: 800-232-0144 PSCC

Waste Name: Drilling Fluids in On site temp tanks

Est. Volume: ~3,000 gal

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 10.25

CD
Authorized Signature

5-15-13
Date (MM/DD/YY)

20130537 PJK-ASC

WASTE MANAGEMENT

78530866

Twin Bridges
1225 Twin Bridges Road
Danville, IN, 46122
ph: 317-745-2378

Original
Ticket# 1284486

Customer Name WM MMTL CSX 100220DIN WM MMTL
Ticket Date 05/15/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 100220DIN
Destination
PO
Profile 100220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental Flat bed truck
Vehicle# 400 Volume
Container
Driver
Check#
Billing # 0001534
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	05/15/2013 13:22:54	Inside 1	csm		Gross	46080 lb
Out	05/15/2013 13:22:54		csm		Tare	25800 lb
					Net	20280 lb
					Tons	10.14

Comments SCHEDULED FOR 2:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.=Gal	100	2249.00	Gal				MONROE-53
2	WSUL=WASHOUT LOAD	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WMIN

#30005

Industrial Waste Disposal Manifest

Profile Number: 102220IN

Expiration Date: 3/4/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation, Inc.

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: 800-282-0144 PSCC

Waste Name: Drilling Fluids in On site temp tanks

Est. Volume: ~3,000 gal

NO Generator Signature Required

Section B — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 10.14

Authorized Signature

5/15/13
Date (MM/DD/YY)

20130536 PTK-45C

#130018

Industrial Waste Disposal Manifest

Profile Number: 102233IN

Profile Expiration Date: 8/4/14

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation	**Technical Contact:** Daniel Dyer
Waste Location: Street Address: 240 Country Club Drive	**County:** Monroe
City: Bloomington	**State:** IN
	Zip Code: 47403
Emergency Response Phone Number: PSCC 800-232-0144	
Waste Name: Drilling fluid stored in on site temp tanks	**Est. Volume:** 1500 gal

NO Generator Signature Required

Section B — DISPOSAL SITE INFORMATION

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

8242515

Original
Ticket# 1294737

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 07/26/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410 Volume
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	07/26/2013 12:54:09	Inside 1	csm		Gross	38640 lb*
Out	07/26/2013 12:54:09		csm		Tare	25680 lb*
			* Manual Weight		Net	12960 lb
					Tons	6.48

Comments SCHEDULED FOR 2:00

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Gal	100	1437.00	Gal				MONROE-53
2	WSUL-WASHOUT LOAD	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130017

Industrial Waste Disposal Manifest

Profile Number: 10222IN

Profile Expiration Date:8/4/14

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Daniel Dyer

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Drilling fluids stored in on site temp tanks

Est. Volume:
2,000gal

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 7.23

CD
Authorized Signature

7-25-13
Date (MM/DD/YY)

20130788DD-ASC

WASTE MANAGEMENT

8242299

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1294463

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 07/25/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410 Volume
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	07/25/2013 10:56:34	Inside 1	ces		Gross	40140 lb
Out	07/25/2013 10:56:34		ces		Tare	25680 lb
					Net	14460 lb
					Tons	7.23

Comments SCHEDULED FOR 10:00 AM

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Liquid Unspec.-Gal	100	1603.00	Gal				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130016

Industrial Waste Disposal Manifest

Profile Number: 10222IN

Profile Expiration Date: 8/4/14

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Daniel Dyer

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Drilling fluids stored in on site temp tanks

Est. Volume:
2,500 gal

NO Generator Signature Required

Section C | DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF

OPP Number: 32-2

Amount: 11.42

CA
Authorized Signature

7-24-13
Date (MM/DD/YY)

20130788DD-ASC

WM WA MANAGEMENT

8242077

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1294190

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 07/24/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410 Volume
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	07/24/2013 10:12:01	Inside 1	ces		Gross	44700 lb
Out	07/24/2013 10:26:56	Inside 1	ces		Tare	25680 lb
					Net	19020 lb
					Tons	9.51

Comments SCHEDULED FOR 10:00 AM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Liquid Unspec.-Gal	100	2109.00	Gal				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

20130788DD-ASC

#130015

Industrial Waste Disposal Manifest

Profile Number: 10222IN

Profile Expiration Date: 8/4/14

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Daniel Dyer

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Drilling fluids stored in on site temp tanks

Est. Volume:
2,900 gal

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 9.51

CD
Authorized Signature

7-24-13
Date (MM/DD/YY)

20130788TDD-ASC

WASTE MANAGEMENT

8242143

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1294281

Customer Name WM NATL CSX 102220IN WM NATL
Ticket Date 07/24/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102220IN
Destination
PO
Profile 102220IN (DRILLING FLUIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Summit Environmental flat bed truck
Vehicle# 410 Volume
Container
Driver
Check#
Billing # 0001594
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	07/24/2013 13:47:28	Inside 1	ces		Gross	48520 lb
Out	07/24/2013 13:47:28		ces		Tare	25680 lb
					Net	22840 lb
					Tons	11.42

Comments SCHEDULED FOR 2:00 PM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Liquid Unspec.-Gal	100	2532.00	Gal				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

20130788TDD-ASC

CSX Approval #
20150476O DD-445

Industrial Waste Disposal Manifest

Profile Number: 610153IN

Expiration Date: 1/20/19

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation, Inc. **Technical Contact:** Daniel Dyer

Waste Location: CSX Transportation

Street Address: 240 Country Club Dr **County:** Monroe

City: Bloomington **State:** IN **Zip Code:** 47403

Emergency Response Phone Number: 1-800-232-0144

RW 2-9-16

Waste Name: Drilling Development and Purge Water **Est. Volume/Number of Drums:** ~~1,000~~ 400 gallons

Special Conditions:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: **Number:** 3202 **Amount:** 1.89

FEB 09 2016

Authorized Signature **Date (MM/DD/YY)**

SCANNED

2

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. N/A

2. Page 1 of 1

3. Generator's Name and Mailing Address
CSX TRANSPORTATION INC (ATTN: DAN DYER)
31 E. GEORGIA ST.
INDIANAPOLIS, IN 46204

GENERATOR'S SITE ADDRESS:
240 COUNTRY CLUB DRIVE
BLOOMINGTON, IN 47401
COUNTY: MONROE

4. Generator's Phone (317) 267-4151

5. Transporter 1 Company Name: SUMMIT ENVIRONMENTAL SERVICES

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
TWIN BRIDGES MSF
124 TWIN BRIDGES RD
DANVILLE, IN 46122

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 317-745-2676

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. DRILLING DEVELOPMENT AND PURGE WATER WM PROFILE # 610153 IN	1	VAC	~400	GAL
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT PHONE NUMBER: PSC (1-800-232-0144)
CSX APPROVED # 2015041716
WM ENV # 116740
CSX PROJECT # 701679

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]			

NON-HAZARDOUS WASTE

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

WASTE MANAGEMENT

11955056

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1432686

Customer Name WMSACSX610153IN WM SA CSX 610 Carrier Summit Environmental flat bed truck
Ticket Date 02/09/2016 Vehicle# e70003 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0002410
State Waste Code Gen EPA ID
Manifest 610153IN
Destination Grid
PO
Profile 610153IN (DRILLING DEVELOPMENT AND PURGE WATER)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	02/09/2016 14:35:37	Inside 1	bhm		Gross	39540 lb
Out	02/09/2016 15:06:12	Inside 1	bhm		Tare	35760 lb
					Net	3780 lb
					Tons	1.89

Comments scheduled 2pm

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Liquid Unspec.-Ton	100	1.89	Tons				IN-MONROE

Total Tax
Total Ticket

403WM-N

Driver's Signature

348542

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
~~IND984866343~~ (RW) NA	1	(800) 232-0144	N/A

GENERATOR

5. Generator's Name and Mailing Address

CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name: ENVIROSERVE, JV — U.S. EPA ID Number: OHD077730540 ~~OHD000333338~~ (RW)

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

U.S. EPA ID Number: OHD048415665

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-RCRA/NON-DOT REGULATED CREOSOTE IMPACTED TRASH/DEBRIS/PPE	~~2~~ 5 (RW)	DM	400 ~~200~~ (RW)	~~LBS~~ GAL (RW)
2.	NON-RCRA/NON-DOT REGULATED CREOSOTE IMPACTED GROUNDWATER	~~4~~ 1 (RW)	DM	50 ~~100~~ (RW)	GAL ~~LBS~~ (RW)
3.					
4.					

13. Special Handling Instructions and Additional Information

1. WPS# 142027 SG 1.00
2. WPS# 144829 SG 1.10

CSX PROJECT # 9415829
T+D BILLED TO ENVIROSERVE
CSX AUTH #: 20181282920D-AUS

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF ON BEHALF OF CSX — Signature: ON BEHALF OF CSX — Month: 12 Day: 7 Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ken McIntosh — Signature — Month: 12 Day: 7 Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Bernadette Amoczky — Signature — Month: 12 Day: 7 Year: 18

General Trash

#130007

Industrial Waste Disposal Manifest

Profile Number: 605966IN

Profile Expiration Date: 5/17/2016

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Trash and debris

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 7.64

Authorized Signature

5/22/13
Date (MM/DD/YY)

201305663PJK-ASC

COMPLETED

WASTE MANAGEMENT

7853936

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 128251

Customer Name WM STRATEGIC ACCOUNTS 605966I
Ticket Date 05/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130007
Destination
PO
Profile 605966IN (ONSITE CLEAN UP DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier DENNEY DENNEY EXCAVATING
Vehicle# 21930
Container
Driver
Check#
Billing # 0002067
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	05/22/2013 09:28:15	Inside 1	csm		Gross	53100 lb
Out	05/22/2013 09:50:02	Inside 1	csm		Tare	37820 lb
					Net	15280 lb
					Tons	7.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	7.64	Tons				MONROE-53
2	TPB-TRANSPORTATION	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130008

Industrial Waste Disposal Manifest
Profile Number: 605966IN
Profile Expiration Date:5/17/2016
ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Trash and debris

Est. Volume:

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 4.67

Authorized Signature

Date (MM/DD/YY) 5/23/13

201305664PJK-ASC

COMPLETED

WASTE MANAGEMENT

7854090

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1282704

Customer Name WM STRATEGIC ACCOUNTS 605966I
Ticket Date 05/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 605966IN
Destination
PO
Profile 605966IN (ONSITE CLEAN UP DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier DENNEY DENNEY EXCAVATING
Vehicle# 21930
Container
Driver
Check#
Billing # 0002067
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	05/23/2013 09:33:26	Inside 1	csm		Gross	47160 lb
Out	05/23/2013 09:33:26		csm		Tare	37820 lb
					Net	9340 lb
					Tons	4.67

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	4.67	Tons				MONROE-53
2	TPB-TRANSPORTATION	100	1	Load				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

PPE-Trash-Debris

#11084

1442337-9000

HAZMAT BILL OF LADING/MANIFEST	1. Offeror's ID Number	2. Page 1 of	3. Emergency Response Phone	4. Tracking Number
	IND984866343	1	(800)326-1221	1442337-9000

5. Offeror's Name and Mailing Address
CSX TRANSPORTATION, INC / PAUL J KURZANSKI
500 WATER STREET, J275
JACKSONVILLE, FL 32202
(800)232-0144
Offeror's Phone:

Offeror's Site Address (if different than mailing address)
CSX TRANSPORTATION / PAUL J KURZANSKI
240 COUNTRY CLUB DRIVE
BLOOMINGTON, IN 47403
GEN: 127644

6. Transporter 1 Company Name
HERITAGE TRANSPORT,LLC/TECH SERVICES
U.S. EPA ID Number: IND058481114

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES
7901 WEST MORRIS STREET
INDIANAPOLIS, IN 46231
Facility's Phone: (317)243-0811
U.S. EPA ID Number: IND093219012

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON-DOT/NON-RCRA REGULATED (10x55DM)	010	DM	1300	P
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				

13. Special Handling Instructions and Additional Information
1.W1_0577612 PPE/TRASH/DEBRIS

CSX APPROVAL # 20110940 AJKASC

CSX EMERGENCY CONTACT: PSCC - 1-800-232-0144 ERI:HERITAGE [1569285]

14. OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Offeror's Printed/Typed Name: Randall Woodruff OF ARCADES
Signature: ON BEHALF OF CSXT
Month: 12 Day: 19 Year: 11

15. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matt Heln
Signature:
Month: 12 Day: 19 Year: 11

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

16. Discrepancy

17. Designated Facility Owner or Operator: Certification of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in item 16

Printed/Typed Name:
Signature:
Month: 12 Day: 21 Year: 11

DESIGNATED FACILITY TO OFFEROR

1571935-9000

130003

HAZMAT BILL OF LADING/MANIFEST	1. Offeror's ID Number	2. Page 1 of 1	3. Emergency Response Phone (800) 326-1221	4. Tracking Number 1571935-9000

5. Offeror's (Shipper's) Name, Mailing Address, and Phone Number
CSX INTERMODAL, INC / PAUL J KORZANSKI
SUN WATER STREET, 4275
JACKSONVILLE, FL 32202
(904) 366-4119

Offeror's (Shipper's) Name, Mailing Address, and Phone Number (if different than shipping address)
PAUL J KORZANSKI
240 COUNTRY CLUB DRIVE
BLOOMINGTON, IN 47401
CELL: 1276[illegible]

6. Transporter 1 Company Name
HERITAGE ENVIRONMENTAL, LLC-IN (MIDLAND/PECO)

U.S. EPA ID Number
IND005383119

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES
PAUL M BOYD -
MIDLAND/PECO, IL 61231-9301
(815) 281-0811

U.S. EPA ID Number
IND093219015

GA HM	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol
	1. NON-RCRA REGULATED	11	DM	800	LBS
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				

13. Special Handling Instructions and Additional Information
201303222 PJK-ASC
HERITAGE WASTE STREAM #127644-1; QUOTE #577612-1
WASTE STREAM DESCRIPTION: NON-HAZARDOUS PPE/TRASH/DEBRIS
CSX EMERGENCY CONTACT NUMBER: 1-800-232-0144

EDI-HERITAGE (81107[illegible])

14. OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Printed/Typed Name	Signature	Month	Day	Year
RANDALL WOODRUFF - ON BEHALF OF CSXT		4	16	13

15. Transportation Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Matt Heis		4	16	13

Printed/Typed Name	Signature	Month	Day	Year

16. Discrepancy

17. Designated Facility Confirmation of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in Item 16.

Printed/Typed Name	Signature	Month	Day	Year
MICHAEL D OKOBEY		4	23	13

1723813-9000

HAZMAT BILL OF LADING/MANIFEST	1. Offeror's ID Number	2. Page 1 of	3. Emergency Response Phone	4. Tracking Number
		1	(800)326-1221	1723813-9000

5. Offeror's Name and Mailing Address
CSX TRANSPORTATION, INC / DANIEL DYER
31 E GEORGIA ST
INDIANAPOLIS, IN 46204-3589
(800)232-0144
Offeror's Phone:

Offeror's Site Address (if different than mailing address)
CSX TRANSPORTATION / DANIEL DYER
240 W COUNTRY CLUB DR
BLOOMINGTON, IN 47403
GEN: 127644

6. Transporter 1 Company Name
HERITAGE TRANSPORT, LLC-TS INDIANAPOLIS

U.S. EPA ID Number: IND058484114

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES
7901 W MORRIS ST
INDIANAPOLIS, IN 46231-3301
Facility's Phone: (317)243-0811

U.S. EPA ID Number: IND093219012

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON-DOT/NON-RCRA REGULATED (7 x 55 DM)	007	DM	675	P
	2.				
	3.				
	4.				
	5.				
	6.				
	7				

13. Special Handling Instructions and Additional Information
1. W1 0577612
20130633TDD-ASC
HERITAGE WASTE STREAM #127644-1
WASTE STREAM DESCRIPTION: NON-HAZARDOUS PPE/RAGS/DEBRIS
CSX EMERGENCY CONTACT NO.: 1-800-232-0144

ERI:HERITAGE [3729868]

14. OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Offeror's Printed/Typed Name	Signature	Month	Day	Year
KANDALL WOODRUFF BY AGENT ON BEHALF OF CSXT		8	14	13

15. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
MATT HEIN		8	14	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

16. Discrepancy

17. Designated Facility Owner or Operator: Certification of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in Item 16

Printed/Typed Name	Signature	Month	Day	Year
MATCHEN A OLGERS		8	19	13

OFFEROR

TRANSPORTER

DESIGNATED FACILITY

DESIGNATED FACILITY'S COPY

#140001

1765583-9000

HAZMAT BILL OF LADING/MANIFEST	1. Offeror's ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Tracking Number
			(800)326-1221	1765583-9000

OFFEROR

5. Offeror's Name and Mailing Address
CSX TRANSPORTATION, INC / DANIEL DYER
31 E GEORGIA ST
INDIANAPOLIS, IN 46204-3589
Offeror's Phone: (800)232-0144

Offeror's Site Address (if different than mailing address)
CSX TRANSPORTATION / DANIEL DYER
240 W COUNTRY CLUB DR
BLOOMINGTON, IN 47403
GEN: 127644

6. Transporter 1 Company Name
HERITAGE TRANSPORT, LLC-TS INDIANAPOLIS
U.S. EPA ID Number
IND058484114

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
HERITAGE ENVIRONMENTAL SERVICES
7901 W MORRIS ST
INDIANAPOLIS, IN 46231-3301
Facility's Phone: (317)243-0811
U.S. EPA ID Number
IND093219012

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON-DOT/NON-RCRA REGULATED	2	DM	250	LBS
	2.				
	3.				
	4.				
	5.				
	6.				
	7.				

13. Special Handling Instructions and Additional Information
1. WI_0859173 (Heritage Quote)
#2014000250 DD-ASC
Heritage Waste Stream: 127644-1
Waste Stream: Non-Hazardous PPE/Trash/Debris
CSX Emergency Contact No.: 1-800-232-0144
ERI:HERITAGE [40570521]

14. **OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Offeror's Printed/Typed Name: Bryant Griggs on behalf CSXT
Signature: BJ Griggs on behalf of CSXT
Month: 1 Day: 2 Year: 14

TRANSPORTER

15. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matt Hein
Signature:
Month: 1 Day: 2 Year: 14

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

16. Discrepancy

17. Designated Facility Owner or Operator: Certification of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in item 16

Printed/Typed Name: Thomas Saint
Signature:
Month: 01 Day: 09 Year: 14

DESIGNATED FACILITY TO OFFEROR

Truck # 312

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			#150002

GENERATOR

5. Generator's Name and Mailing Address
CSX Transportation (Attn: Dan Dyer)
31 E. Georgia St.
Indianapolis, In 47204
Generator's Phone: 317-267-4151

Generator's Site Address (if different than mailing address)
CSX Transportation
240 Country Club Drive
Bloomington In 47403

6. Transporter 1 Company Name
Environmental Management Specialists Inc 614-567-6273

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Twin Bridges RDF
124 Twin Bridges Rd
Danville, In 46122
Facility's Phone:

U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Creosote Impacted Solids WM Profile #609510 IN	1	RO	18	CY	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Emergency Contact Phone
PSCC-1-800-232-0144

20150615TDD-ASC
CSX Project # 94115829

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Randall Woodruff of Arcadis on behalf of CSX Transportation
Signature: of Arcadis on behalf of CSX Transportation
Month: 06 Day: 3 Year: 15

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matthew I. Smith
Signature:
Month: 06 Day: 3 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: BHM
Signature: BHM
Month: 6 Day: 3 Year: 15

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

10830123

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph. 317-745-2270

Original
Ticket# 1050734

Customer Name WMGRDSX5035101N WX SA DSX 629 Carrier Dolin Enterprises
Ticket Date 26/03/2013 Vehicle# 312 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0002204
State Waste Code Gen EPA ID
Manifest 001810CK
Destination Grid
PO
Profile SRDSX0LN (CREOSOTE IMPACTED SOLIDS)
Generator 141 DSX 240 DOLITTNY ELLIS DR DSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	26/03/2013 11:02:44	Inside 1	Unk		Gross	40640 lb
Out	26/03/2013 11:46:13	Inside 1	bhm		Tare	30560 lb
					Net	10080 lb
					Tons	5.04

Comments

	Product	UOM	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth 120		5.04	Tons				IN-HONDRE

Total Tax
Total Ticket

403WM-N
Driver's Signature

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NON HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 22 Page 1 of | 33 Emergency Response Phone | 44. Waste Tracking Number #150003

5. Generator's Name and Mailing Address
CSX Transportation (Attn: Dan Dyer)
34 E. Georgia St.
Indianapolis, In 462

Generator's Site Address (if different than mailing address)
CSX Transportation
2440 Country Club Drive
Bloomington, Illinois 61704

Generator's Phone: 317-262-5511

6. Transporter 1 Company Name
Environmental Management Specialists Inc.

U.S. EPA ID Number: ILD 516 762 173

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Twin Bridges RDF
124 Twin Bridges Rd.
Danville, In 46122

U.S. EPA ID Number:

Facility's Phone:

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Creosote Impacted Solids	1	RO	18	CY
2. Creosote Impacted Solids	5	DM	258	yd
3.				
4.				

13. Special Handling Instructions and Additional Information
Emergency Contact Phone Number
PSEC = 1-800-232-0144

2015 06238 DD-ASC
CSX Project # 941589

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Randall Woodruff OF GRADES ON REMOTE OF CSX TRANSPORTATION
Signature: OF GRADES ON REMOTE OF CSX TRANSPORTATION
Month: 06 Day: 13 Year: 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matthew E Smith
Signature:
Month: 06 Day: 13 Year: 15

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 06 Day: 14 Year: 15

GENERATOR | TRANSPORTER | DESIGNATED FACILITY

168-BLS-C-5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

10830262

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1393923

Customer Name WMSACSX609510IN WM SA CSX 609 Carrier EMS
Ticket Date 06/04/2015 Vehicle# 31218 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0002284
State Waste Code Gen EPA ID
Manifest 609510IN
Destination Grid
PO
Profile 609510IN (CREOSOTE IMPACTED SOLIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound	Gross	47860 lb*
In	06/04/2015 09:19:19	Inside 1	csm		Tare	38560 lb*
Out	06/04/2015 09:19:41	Inside 1	csm		Net	9300 lb
			* Manual Weight		Tons	4.65

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin

CSX APPROVAL #

20150476.2 DD-Aus

Industrial Waste Disposal Manifest
Profile Number: 609510IN
Expiration Date: 5/28/18
ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name: CSX Transportation, Inc. **Technical Contact:** Daniel Dyer

Waste Location:

Street Address: 240 Country Club Dr **County:** Monroe

City: Bloomington **State:** IN **Zip Code:** 47403

Emergency Response Phone Number: 1-800-232-0144

Waste Name: Creosote Impacted Solids **Est. Volume/Number of Drums:** ~ 1 TRUCK LOAD

Special Conditions:

NO Generator Signature Required

Section C **DISPOSAL SITE INFORMATION**

Site Name: 32-02 **OPP Number:** **Amount:** 19

FEB 09 2016

Authorized Signature **Date (MM/DD/YY)**

SCANNED

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Document No. N/A	2. Page 1 of

3. Generator's Name and Mailing Address
CSX TRANSPORTATION (ATTN: DAN BYER)
31 E. GEORGIA ST.
INDIANAPOLIS, IN 46204
4. Generator's Phone (317) 267-4151

GENERATOR'S SITE ADDRESS:
2411 COUNTRY CLUB DRIVE
BLOOMINGTON, IN 47403
COUNTY: MONROE

5. Transporter 1 Company Name: SUMMIT ENVIRONMENTAL SERVICES
6. US EPA ID Number:
A. State Transporter's ID:
B. Transporter 1 Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
TWIN BIRCHES RDF
170 TWIN BIRCHES RD
DANVILLE, IN 46122
10. US EPA ID Number:
E. State Facility's ID:
F. Facility's Phone: 317-745-2878

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. CREOSOTE IMPACTED SOILS W/M PROFILE # 609510 IN	1			
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT PHONE NUMBER: PSC (1-800-[illegible])
CSX APPROVAL # 20150476202-AUG
WM ENV # 116740
CSX PROJECT # 944629

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date: Month	Day	Year
[illegible]	[illegible]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date: Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date: Month	Day	Year
[illegible]	[illegible]			

PRINTED ON RECYCLED PAPER Printed with SOY INK

WASTE MANAGEMENT

11955054

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1403890

Customer Name WMSACSX609510IN WM SA CSX 609 Carrier Summit Environmental flat bed truck
Ticket Date 02/09/2016 Vehicle# 331 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0002284
State Waste Code Gen EPA ID
Manifest 609510IN
Destination Grid
PO
Profile 609510IN (CREOSOTE IMPACTED SOLIDS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	02/09/2016 14:49:59	Inside 1	bhw		Gross	19100 lb
Out	02/09/2016 15:01:11	Inside 1	bhw		Tare	18720 lb
			* Manual Weight		Net	380 lb
					Tons	0.19

Comments needed profile

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	0.19	Tons				IN JOHNSON

Ed Morin
2/9/16

Total Tax
Total Ticket

403WM-N

Driver's Signature

316636

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NA | 2. Page 1 of 1 | 3. Emergency Response Phone: 800-232-0144 | 4. Waste Tracking Number: NA

5. Generator's Name and Mailing Address: CSX TRANSPORTATION ATTN D. DYER, 31 EAST GEORGIA ST, INDIANAPOLIS, IN 46204, 317-267-4157

Generator's Site Address (if different than mailing address): CSX TRANSPORTATION ATTN D. DYER, 240 COUNTRY CLUB DR, BLOOMINGTON, IN 47403, 317-267-4157

Generator's Phone:

6. Transporter 1 Company Name: ENVIROSERVE, IV | U.S. EPA ID Number: OHD017730540

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: ROSS ENGINEERING SERVICES, INC., 36790 GIVES ROAD, GRAFTON, OH 44044 | U.S. EPA ID Number: OHD048415665

Facility's Phone: 440-748-5800

	9. Waste Shipping Name and Description	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1	CREOSOTE IMPACTED TRASH/DEBRIS/PPE (NON-RCRA NON-DOT REGULATED)	2	DM	200	LBS
2					
3					
4					

13. Special Handling Instructions and Additional Information: WPS # 142027 CSX PROJECT # 9415829 ENV0000123577 SG 1.00 20170090 DD-445

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: KAMALL WOODRUFF ON BEHALF OF CSX | Signature: ON BEHALF OF CSX | Month: 5 | Day: 23 | Year: 17

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. | Port of entry/exit: | Transporter Signature (for exports only): | Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JOE | Signature | Month: 05 | Day: 23 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: | U.S. EPA ID Number:

17b. Alternate Facility (or Generator) | Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: AMBER PHILLIPS | Signature | Month: 5 | Day: 23 | Year: 17

GENERATOR — TRANSPORTER / INT'L — DESIGNATED FACILITY

169-BLC-O & 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

321842

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. N/A

2. Page 1 of 1

3. Generator's Name and Mailing Address
CSX TRANSPORTATION ATTN: DAN DYER
31 EAST GEORGIA ST,
INDIANAPOLIS, IN 46204
4. Generator's Phone (317) 267-4151

GENERATOR SITE ADDRESS:
CSX TRANSPORTATION ATTN: D. DYER
240 COUNTRY CLUB DR.
BLOOMINGTON, IN 47403
317-267-4151

5. Transporter 1 Company Name
ENVIRO SERVE, JV

6. US EPA ID Number
OHD017730540

A. State Transporter's ID

B. Transporter 1 Phone (216) 642-131

7. Transporter 2 Company Name
ROSS TRANSPORT SERVICES

8. US EPA ID Number
OHD 980614374

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
ROSS INCINERATION SERVICES, IN
36790 GIES ROAD
GRAFTON, OH 44044 (440)748-5800

10. US EPA ID Number
OHD048415665

E. State Facility's ID

F. Facility's Phone 440-748-5800

11. WASTE DESCRIPTION	Containers No	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. CREOSOTE IMPACTED TRASH/DEBRIS/PPE	1	DM	100	LBS
b.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WPS# 142027 SG 1.00
CSX EMERGENCY CONTACT # 800-232-0144
CSX PROJECT # 941582 9
ENV0000123577

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name RANDALL WOODRUFF ON BEHALF OF CSXT
Signature ON BEHALF OF CSXT
Date Month 8 Day 24 Year 17

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name GARY GREENAWALT
Signature
Date Month 8 Day 24 Year 17

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name DAWN PALMER
Signature
Date Month 8 Day 31 Year 17

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name Rebecca Walker
Signature
Date Month 09 Day 01 Year 17

GENERATOR
TRANSPORTER
FACILITY
NON-HAZARDOUS WASTE

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PRINTED USING SOY INK

329716

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(800) 232-0144	

5. Generator's Name and Mailing Address

CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name

ENVIROSERVE,JV

U.S. EPA ID Number: OHD017730540

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address

ROSS INCINERATION SERVICES, INC.
36790 BILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

U.S. EPA ID Number: OHD048415665

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA/ Non-DOT regulated Creosote Impacted Trash/ Debris/ PPE	1	DM	75	LBS
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

1. WPS# 142027 SG 1.00

CSX Project #: 9415829
T&D Billed to: Enviroserve
CSX Authorization #: 201719578DD-AUS

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF On behalf of CSX | Signature: | On behalf of CSX | Month: 11 | Day: 20 | Year: 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID MEIER | Signature: | Month: 11 | Day: 20 | Year: 17

Transporter 2 Printed/Typed Name: | Signature: | Month: | Day: | Year:

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Joey Franklin | Signature: | Month: 11 | Day: 24 | Year: 17

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09)

H040

DESIGNATED FACILITY TO GENERATOR

348542

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
~~IND984866343~~ (RW) NA	1	(800) 232-0144	N/A

GENERATOR

5. Generator's Name and Mailing Address

CSX TRANSPORTATION ATTN D DYER
31 EAST GEORGIA ST
INDIANAPOLIS, IN 46204
Generator's Phone: (317) 267-4151

Generator's Site Address (if different than mailing address)

CSX TRANSPORTATION ATTN D DYER
240 COUNTRY CLUB DR
BLOOMINGTON, IN 47403

6. Transporter 1 Company Name: ENVIROSERVE, JV — U.S. EPA ID Number: OHD077730540 ~~OHD000333338~~ (RW)

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

ROSS INCINERATION SERVICES, INC.
36790 GILES ROAD
GRAFTON, OH 44044
Facility's Phone: (440) 748-5800

U.S. EPA ID Number: OHD048415665

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-RCRA/NON-DOT REGULATED CREOSOTE IMPACTED TRASH/DEBRIS/PPE	~~2~~ 5 (RW)	DM	400 ~~200~~ (RW)	~~LBS~~ GAL (RW)
2.	NON-RCRA/NON-DOT REGULATED CREOSOTE IMPACTED GROUNDWATER	~~4~~ 1 (RW)	DM	50 ~~100~~ (RW)	GAL ~~LBS~~ (RW)
3.					
4.					

13. Special Handling Instructions and Additional Information

1. WPS# 142027 SG 1.00
2. WPS# 144829 SG 1.10

CSX PROJECT # 9415829
T+D BILLED TO ENVIROSERVE
CSX AUTH #: 20181282920D-AUS

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: RANDALL WOODRUFF ON BEHALF OF CSX — Signature: ON BEHALF OF CSX — Month: 12 Day: 7 Year: 18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ken McIntosh — Signature — Month: 12 Day: 7 Year: 18

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Bernadette Amoczky — Signature — Month: 12 Day: 7 Year: 18

Railroad Ties

ATTENTION SHIPPERS! FREIGHT CHARGES ARE RPEPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Page 1 of 1

Alliance Service Group, LLC (Name of Carrier) (SCAC)

#130010

TO:
Consignee CSX Transportation, Inc. Hawthorne Yard
Street 901 S Emerson Ave
City Indianapolis State Indiana Zip Code 46203

FROM:
Shipper CSX Transportation, Inc.
Street 240 Country Club Drive
City Bloomington State Indiana Zip Code 47403
24 hr Emergency Contact Tel. No. 1-800-232-0144

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group OR Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 trailer load		NON RCRA, NON DOT USED RR TIES FOR RECYCLING	~25 used RR ties			
		201305671PJK-ASC				

PLACARDS TENDERED: YES ☐ NO ☒

REMIT C.O.D. TO:
ADDRESS

Note – (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

(2) Where the applicable tariff provisions specify a limitation of the carrier's absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 380, Bill of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby desire that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

On behalf of CSX Transportation Signature

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and al other lawful charges.

(Signature of Consignor)

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID Except when box at Right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or comparison in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

Destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER CSX Transportation, Inc.
PER on behalf of CSXT

CARRIER Alliance Service Group
PER
DATE 5-22-13

Scrap Metal

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE RPEPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Page 1 of 1

Alliance Service Group, LLC (Name of Carrier) (SCAC)

#130011[redacted]

TO:
Consignee JB Salvage Inc

Street 1803 W. Vernal Pike

City Bloomington State Indiana Zip Code 47404

FROM:
Shipper CSX Transportation, Inc.

Street 240 Country Club Drive

City Bloomington State Indiana Zip Code 47403

24 hr Emergency Contact Tel. No. 1-800-232-0144

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group OR UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 trailer load		NON RCRA, NON DOT SCRAP METAL FOR RECYCLING	~1 ton			
		201305747PJK-ASC[redacted]				

PLACARDS TENDERED: YES ☐ NO ☒

REMIT C.O.D. TO:
ADDRESS

Note – (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

(2) Where the applicable tariff provisions specify a limitation of the carrier's absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bill of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby desire that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

On behalf of CSX Transportation Signature

COD
Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and al other lawful charges.

(Signature of Consignor)

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID Except when box at Right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or comparison in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

Destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ~~CSX Transportation, Inc.~~
PER [signature] ON BEHALF OF CSXT

CARRIER ALLIANCE SERVICE GROUP
PER [signature]
DATE 5-22-13

SCALE PURCHASE TICKET

JB Salvage
1803 West Vernal Pike
Bloomington, In 47404
812-332-0606

Ticket: 241119 **Weigh In:** 05/22/2013 14:18
Customer: 17070 **Weigh Out:** 05/22/2013 14:30
ERNEST NAMETH
19652 RAUBER RD
LOGAN, OH 43138
Driver's License: RL782227 OH

All materials recycled!

Commodity	Gross	Tare	Net	Price	TOTAL $
Sheet Iron / Tin	19300	17930	1370	215.000/NT	$147.28

Buyer: 9 **Ticket Total** **$147.28**

I hereby certify that I have the right to possess and sell this scrap.
This is a Bill of Sale to the above described scrap.
I hereby acknowledge payment in full.

Customer Signature

Please do not lose this ticket.
Ticket required for payment.

Sediment

WASTE MANAGEMENT

7719144

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259187

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120506
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 45
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

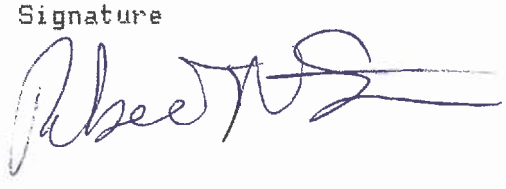
	Time	Scale	Operator	Inbound		
In	12/18/2012 10:22:15	Inside 1	ces		Gross	72020 lb*
Out	12/18/2012 10:32:01	Inside 1	ces		Tare	28840 lb
			* Manual Weight		Net	43180 lb
					Tons	21.59

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.59	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A **Generator Information**

Generator Name:

CSX Transportation

Technical Contact:

Paul Kurzanski

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7719148

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259192

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120507
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 1
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 10:33:41	Inside 1	ces		Gross	80280 lb
Out	12/18/2012 10:40:51	Inside 1	ces		Tare	28420 lb
					Net	51860 lb
					Tons	25.93

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	25.93	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: 30 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 34-7 Amount: 25.93

Authorized Signature

Date (MM/DD/YY) 2-2-2

WASTE MANAGEMENT

7719174

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259219

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120508
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 56
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

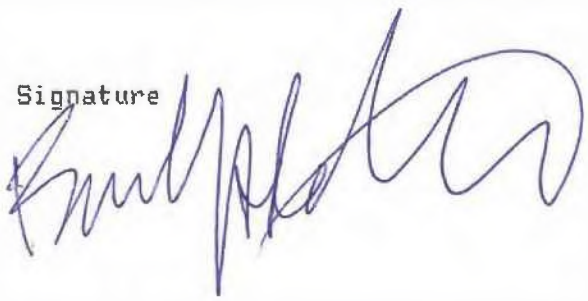
	Time	Scale	Operator	Inbound		
In	12/18/2012 11:15:39	Inside 1	csm		Gross	67260 lb
Out	12/18/2012 11:29:12	Inside 1	csm		Tare	27860 lb
					Net	39400 lb
					Tons	19.70

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.70	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

120505

2012 05739 PIK-ASC

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A	Generator Information	
Generator Name:	**Technical Contact:**	
CSX Transportation	**Paul Kurzanski**	
Waste Location: **Street Address:**	**County:**	
240 Country Club Drive	**Monroe**	
City:	**State:**	**Zip Code:**
Bloomington	IN	47403
Emergency Response Phone Number:		
PSCC 800-232-0144		
Waste Name:	**Est. Volume:**	
Impacted Creek Sediments, gravel and soils	20 TONS	

NO Generator Signature Required

Section C	DISPOSAL SITE INFORMATION	
Site Name: Twin Bridges Landfill	**OPP Number:** 32-02	**Amount:** 19.70
Authorized Signature	**Date (MM/DD/YY)** 12/18/12	

Truck # 956

WASTE MANAGEMENT

7719188

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259241

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120509
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 24
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 11:59:12	Inside 1	csm		Gross	73940 lb
Out	12/18/2012 12:09:28	Inside 1	csm		Tare	26440 lb
					Net	47500 lb
					Tons	23.75

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.75	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7719182

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259233

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120510
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 22
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 11:36:58	Inside 1	csm		Gross	67220 lb
Out	12/18/2012 11:49:37	Inside 1	csm		Tare	27760 lb
					Net	39460 lb
					Tons	19.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.73	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:	**Technical Contact:**	
CSX Transportation	Paul Kurzanski	
Waste Location: Street Address:	**County:**	
240 Country Club Drive	Monroe	
City:	**State:**	**Zip Code:**
Bloomington	IN	47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:	**Est. Volume:**
Impacted Creek Sediments, gravel and soils	

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 25-2 **Amount:** 9.73

Authorized Signature **Date (MM/DD/YY)** 12/18/12

7719227

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259286

Customer Name WASTE MANAGEMENT WASTE MANAGE Carrier Young Trucking dump
Ticket Date 12/18/2012 Vehicle# 45 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001998
State Waste Code Gen EPA ID
Manifest 120512
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

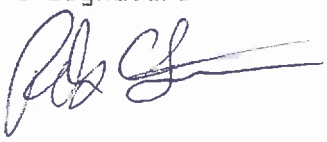
	Time	Scale	Operator	Inbound		
In	12/18/2012 13:30:04	Inside 1	csm		Gross	75180 lb
Out	12/18/2012 13:30:04		csm		Tare	28840 lb
					Net	46340 lb
					Tons	23.17

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.17	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

Industrial Waste Disposal Manifest

Profile Number: 6042588

Section A — Generator Information

Generator Name:

CSX Transportation

Technical Contact:

Paul Kurzanski

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 22-22

Amount: 23.67

Authorized Signature

12/12/22

Date (MM/DD/YY)

WASTE MANAGEMENT

7719233

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259292

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120513
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 1
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 13:56:08	Inside 1	ces		Gross	67300 lb
Out	12/18/2012 13:56:08		ces		Tare	28420 lb
					Net	38880 lb
					Tons	19.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.44	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:
[illegible]

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: [illegible]

Amount: [illegible]

[illegible]
Authorized Signature

[illegible]
Date (MM/DD/YY)

WASTE MANAGEMENT

7719251

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259318

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120514
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 56
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 14:34:46	Inside 1	ces		Gross	62520 lb
Out	12/18/2012 14:34:46		ces		Tare	27860 lb
					Net	34660 lb
					Tons	17.33

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.33	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7719257

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259324

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120515
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 14:52:09	Inside 1	ces		Gross	57440 lb
Out	12/18/2012 15:03:12	Inside 1	ces		Tare	27520 lb
					Net	29920 lb
					Tons	14.96

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	14.96	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

Industrial Waste Disposal Manifest
Profile Number: 60258IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7719261

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259337

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120516
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 22
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/18/2012 15:15:43	Inside 1	ces		Gross	63660 lb
Out	12/18/2012 15:15:43		ces		Tare	27760 lb
					Net	35900 lb
					Tons	17.95

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.95	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: [illegible]

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: [illegible] **Amount:** [illegible]

[illegible]
Authorized Signature

[illegible]
Date (MM/DD/YY)

7719387

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259492

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120517
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2012 11:37:13	Inside 1	ces		Gross	71180 lb
Out	12/19/2012 11:37:13		ces		Tare	27520 lb
					Net	43660 lb
					Tons	21.83

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.83	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WMEN

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-233-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

Site Number:

PO Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

7719389

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1259486

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120518
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 52
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2012 11:18:34	Inside 1	ces		Gross	62540 lb
Out	12/19/2012 11:42:05	Inside 1	ces		Tare	26420 lb
					Net	36120 lb
					Tons	18.06

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.06	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

7720101

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260351

Customer Name WASTE MANAGEMENT WASTE MANAGE Carrier Young Trucking dump
Ticket Date 12/28/2012 Vehicle# 44 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001998
State Waste Code Gen EPA ID
Manifest 120519
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

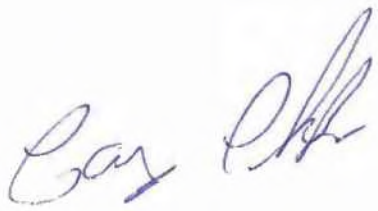
	Time	Scale	Operator	Inbound		
In	12/28/2012 09:31:45	Inside 1	csm		Gross	63360 lb
Out	12/28/2012 09:47:48	Inside 1	ces		Tare	27920 lb
					Net	35440 lb
					Tons	17.72

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.72	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

120519
20120575 OF JK ASC

Industrial Waste Disposal Manifest
Profile Number: 6042581N

Section A	Generator Information	
Generator Name:	**Technical Contact:**	
CSX Transportation	Paul Kurzanski	
Waste Location: **Street Address:**	**County:**	
240 Country Club Drive	Monroe	
City:	**State:**	**Zip Code:**
Bloomington	IN	47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:	**Est. Volume:**
Impacted Creek Sediments, gravel and soils	20 Tons

NO Generator Signature Required

Section C	DISPOSAL SITE INFORMATION	
Site Name: Twin Bridges Landfill	**OPP Number:** 32-2	**Amount:** 12.72
CS	12-28-12	
Authorized Signature	**Date (MM/DD/YY)**	

WASTE MANAGEMENT

7720100

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260361

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120520
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 22
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 09:47:03	Inside 1	ces		Gross	70820 lb
Out	12/28/2012 09:47:03		ces		Tare	27760 lb
					Net	43060 lb
					Tons	21.53

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.53	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#12052

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Karzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: ~ 3

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** _ **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720105

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260366

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120521
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 56
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 10:02:13	Inside 1	ces		Gross	71900 lb
Out	12/28/2012 10:02:13		ces		Tare	27860 lb
					Net	44040 lb
					Tons	22.02

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.02	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: 20 To..

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** _ **Amount:**

Authorized Signature

Date (MM/DD/YY)

7720114

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260377

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120522
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 24
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 10:25:24	Inside 1	ces		Gross	70160 lb*
Out	12/28/2012 10:25:24		ces		Tare	26440 lb*
			* Manual Weight		Net	43720 lb
					Tons	21.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.86	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720130

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260394

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120523
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 9
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	69240 lb
In	12/28/2012 11:00:33	Inside 1	ces		Tare	28760 lb
Out	12/28/2012 11:14:49	Inside 1	csm		Net	40480 lb
					Tons	20.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.24	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: 20 To.

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720140

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260406

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120524
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 23
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 11:28:36	Inside 1	csm		Gross	71640 lb
Out	12/28/2012 11:51:21	Inside 1	csm		Tare	26900 lb
					Net	44740 lb
					Tons	22.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.37	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature 

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: ~20 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720161

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260436

Customer Name WASTE MANAGEMENT WASTE MANAGE Carrier Young Trucking dump
Ticket Date 12/28/2012 Vehicle# 44 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001998
State Waste Code Gen EPA ID
Manifest 120544 25
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	12/28/2012 12:58:22	Inside 1	csm		Gross	68780 lb
Out	12/28/2012 12:58:22		csm		Tare	27920 lb
					Net	40860 lb
					Tons	20.43

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.43	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#120525

#20120575 CPSX-ASC

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: **240 Country Club Drive**

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume: 20 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720162

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260437

Customer Name WASTE MANAGEMENT WASTE MANAGE Carrier Young Trucking dump
Ticket Date 12/28/2012 Vehicle# 22 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001998
State Waste Code Gen EPA ID
Manifest 120526
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	12/28/2012 13:00:17	Inside 1	csm		Gross	76940 lb
Out	12/28/2012 13:00:17		csm		Tare	27760 lb
					Net	49180 lb
					Tons	24.59

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.59	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:	**Technical Contact:**	
CSX Transportation	Paul Kurzanski	
Waste Location: Street Address:	**County:**	
240 Country Club Drive	Monroe	
City:	**State:**	**Zip Code:**
Bloomington	IN	4740[illegible]

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:	**Est. Volume:**
Impacted Creek Sediments, gravel and soils	[illegible] Ton

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** _____ **Amount:** _____

_____ _____

Authorized Signature **Date (MM/DD/YY)**

WASTE MANAGEMENT

7720171

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260446

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120527
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 56
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 13:30:58	Inside 1	ces		Gross	77140 lb
Out	12/28/2012 13:30:58		ces		Tare	27860 lb
					Net	49280 lb
					Tons	24.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.64	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:
25 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number:

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720172

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260447

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120528
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 24
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 13:52:18	Inside 1	ces		Gross	79100 lb
Out	12/28/2012 13:52:18		ces		Tare	26440 lb
					Net	52660 lb
					Tons	26.33

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.33	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Steve Evans

403WM-N

#1120528

#201205759 PJK ASL

Industrial Waste Disposal Manifest

Profile Number: 6042583IN

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:
20 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 26.33

Authorized Signature

12-18-12

Date (MM/DD/YY)

7720177

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260453

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120529
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 9
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 14:10:15	Inside 1	ces		Gross	74800 lb
Out	12/28/2012 14:10:15		ces		Tare	28760 lb
					Net	46040 lb
					Tons	23.02

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.02	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Paul Kurzanski

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name: Impacted Creek Sediments, gravel and soils

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

7720190

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260469

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/28/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120530
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 23
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/28/2012 14:53:21	Inside 1	ces		Gross	75160 lb*
Out	12/28/2012 14:53:21		ces		Tare	26900 lb*
			* Manual Weight		Net	48260 lb
					Tons	24.13

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	24.13	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

WM WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 604258IN

Section A	Generator Information	
Generator Name:	Technical Contact:	
CSX Transportation	Paul Kurzanski	
Waste Location: Street Address:	County:	
240 Country Club Drive	Monroe	
City:	State:	Zip Code:
Bloomington	IN	47403
Emergency Response Phone Number:		
PSCC 800-232-0144		
Waste Name:	Est. Volume:	
Impacted Creek Sediments, gravel and soils		

NO Generator Signature Required

Section C	DISPOSAL SITE INFORMATION	
Site Name: Twin Bridges Landfill	OPP Number: 32-2	Amount:
Authorized Signature	Date (MM/DD/YY)	

WASTE MANAGEMENT

7720226

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1260515

Customer Name WASTE MANAGEMENT WASTE MANAGE
Ticket Date 12/29/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120531
Destination
PO
Profile 604258IN (IMPACTED CREEK SEDIMENTS, GRAVEL & SOILS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier Young Trucking dump
Vehicle# 9
Container
Driver
Check#
Billing # 0001998
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/29/2012 10:46:43	Inside 1	ces		Gross	65200 lb
Out	12/29/2012 10:46:43		ces		Tare	28760 lb
					Net	36440 lb
					Tons	18.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.22	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#120531

#2011205.742 PTIC ASC

Industrial Waste Disposal Manifest

Profile Number: 60402581N

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:
Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 800-232-0144

Waste Name:
Impacted Creek Sediments, gravel and soils

Est. Volume:
20 Ton

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.22

CD
Authorized Signature

12-29-12
Date (MM/DD/YY)

Soil Cuttings - Drilling

WASTE MANAGEMENT

11612

Industrial Waste Disposal Manifest
Profile Number: 102221IN
Expiration Date: 09/02/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403-

Emergency Response Phone Number: 800-232-0144

Waste Name:
Drilling Soil Cuttings and Debris

Est. Volume/Number of Drums:
7

Special Conditions:

#20110788 3PJL-ARC

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 1.83

CD
Authorized Signature

10-28-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1915815

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1196001

Customer Name WM NATL CSX 102221IN WM NATL
Ticket Date 10/28/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102221IN
Destination
PO
Profile 102221IN (DRILLING SOIL CUTTINGS AND DEBRIS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier HOOSIER EQUIP HOOSIER EQUIPMENT
Vehicle# 05
Container
Driver
Check#
Billing # 0001595
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/28/2011 14:55:39	Inside 1	ces		Gross	18580 lb
Out	10/28/2011 15:09:16	Inside 1	ces		Tare	14920 lb
					Net	3660 lb
					Tons	1.83

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		5	Each				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120504

Industrial Waste Disposal Manifest
Profile Number: 102221IN
Expiration Date: 09/02/2014
ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403-

Emergency Response Phone Number: 800-232-0144

Waste Name:
Drilling Soil Cuttings and Debris

Est. Volume/Number of Drums:
4 DRUMS

Special Conditions:

NO Generator Signature Required

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 1

CS
Authorized Signature

8-1-12
Date (MM/DD/YY)

201205140PJK-ASC

WASTE MANAGEMENT

2554836

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1237567

Customer Name WM NATL CSX 102221IN WM NATL
Ticket Date 08/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102221IN
Destination
PO
Profile 102221IN (DRILLING SOIL CUTTINGS AND DEBRIS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier HOOSIER EQUIP HOOSIER EQUIPMENT
Vehicle# pu Volume
Container
Driver
Check#
Billing # 0001595
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	4000 lb*
In	08/01/2012 11:23:28	Inside 1	cas		Tare	2000 lb*
Out	08/01/2012 11:23:41	Inside 1	cas		Net	2000 lb
			* Manual Weight		Tons	1.00

Comments

WASTE MANAGEMENT

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	4	Each				MONROE-53

Total Tax
Total Ticket

River's Signature

403WM

Industrial Waste Disposal Manifest

Profile Number: 100221NN

Expiration Date: 09/09/2014

#139014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation

Technical Contact:
Paul Kurzanski

Waste Location:

Street Address:
240 Country Club Drive

County:
Monroe

City:

State:
NJ

Zip Code:

Emergency Response Phone Number: 800-272-0144

Waste Name:
Drilling Soil Cuttings and Debris

Est. Volume/Number of Drums:
1 Drums

Special Conditions:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **PO#:** **Number:** 322 **Amount:** 64

1 of 2

Authorized Signature

Authorized Signature

Date (MM/DD/YY)

2001330613 PAK 1350

WASTE MANAGEMENT

7854570

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1283295

Customer Name	WM NATL CSX 102221IN WM NATL	Carrier	HOOSIER EQUIP HOOSIER EQUIPMENT
Ticket Date	05/28/2013	Vehicle#	05 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001595
State Waste Code		Gen EPA ID	
Manifest	102221IN		
Destination			
PO			
Profile	102221IN (DRILLING SOIL CUTTINGS AND DEBRIS)		
Generator	141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC		

	Time	Scale	Operator	Inbound		
In	05/28/2013 10:57:52	Inside 1	ces		Gross	16280 lb
Out	05/28/2013 11:11:14	Inside 1	csm		Tare	15000 lb
					Net	1280 lb
					Tons	0.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	4	Each				MORGAN-55

Total Tax
Total Ticket

Driver's Signature

403WM-N

05

#130019

Industrial Waste Disposal Manifest

Profile Number: 1022211N

Profile Expiration Date:9/2/14

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name: CSX Transportation

Technical Contact: Daniel Dyer

Waste Location:
Street Address: 240 Country Club Drive

County: Monroe

City: Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number: PSCC 800-232-0144

Waste Name: Drilling soil cutting

Est. Volume: 25 Drums

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 7.92 Ton

Authorized Signature

7/19/13
Date (MM/DD/YY)

201307891DD-ASC

WASTE MANAGEMENT

8241435

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1293443

Customer Name WM NATL CSX 102221IN WM NATL
Ticket Date 07/19/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 102221IN
Destination
PO
Profile 102221IN (DRILLING SOIL CUTTINGS AND DEBRIS)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

Carrier HOOSIER EQUIP HOOSIER EQUIPMENT
Vehicle# 05
Container
Driver
Check#
Billing # 0001595
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	07/19/2013 11:41:32	Inside 1	csm		Gross	30840 lb
Out	07/19/2013 11:41:32		csm		Tare	15000 lb
					Net	15840 lb
					Tons	7.92

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	25	Each				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

CSX APPROVAL #
2015 04761 DD-AMS

Industrial Waste Disposal Manifest

Profile Number: 610066IN

Expiration Date: 1/20/19

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name: CSX Transportation, Inc. **Technical Contact:** Daniel Dyer

Waste Location: CSX Transportation

Street Address: 240 Country Club Dr **County:** Monroe

City: Bloomington **State:** IN **Zip Code:** 47403

Emergency Response Phone Number: 1-800-232-0144

RW 2-4-14

Waste Name: Drilling Soil Cuttings with Water Est. Volume/Number of Drums: ~~10~~ 8 55 Gallon Drums

Special Conditions:

NO Generator Signature Required

Section C **DISPOSAL SITE INFORMATION**

Site Name: **Number:** 32-02 **Amount:** 2 20

Authorized Signature

FEB 09 2015

Date (MM/DD/YY)

SCANNED

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No.

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
(GENERATOR'S SITE ADDRESS, 240 COUNTRY CLUB DRIVE, BLOOMINGTON, IN 47403, COUNTY: MONROE)

4. Generator's Phone (317) 267-4151

5. Transporter 1 Company Name

6. US EPA ID Number

A. State Transporter's ID

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
124 TWIN RIVERS RD.

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a.				
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT PHONE NUMBER - PAUL (1-800-332-2744)
CLX APPROVAL # 20150417 01 TDA

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name | Signature | Date: Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name | Signature | Date: Month Day Year

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WASTE MANAGEMENT

11955058

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Phn: 317-745-2878

Original
Ticket# 1432706

Customer Name WMSACSYC100661N WM SA CSX 610 Carrier Summit Environmental Flat bed truck
Ticket Date 02/09/2016 Vehicle# 331 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0002411
State Waste Code Gen EPA ID
Manifest 6100661N
Destination Grid
PO
Profile 6100661N (DRILL SOIL CUTTINGS WITH WATER)
Generator 141-CSX 240 COUNTRY CLUB DR CSX TRANSPORTATION INC

	Time	Scale	Operator	Inbound		
In	02/09/2016 15:12:03	Inside 1	bha		Gross	18720 lb*
Out	02/09/2016 15:18:21	Inside 1	bha		Tare	14320 lb
			* Manual Weight		Net	4400 lb
					Tons	2.20

Comments needed profile

Product	LDS	Qty	UOM	Rate	Tax	Amount	Origin
1 Liquid Unspec. Exc 100		8	Each				IN-HENDRIC

Total Tax
Total Ticket

403WM-N

Driver's Signature

Soil - Excavtions

WASTE MANAGEMENT

1922104

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203681

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11058
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 16
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 15:16:56	Inside 1	ces		Gross	65460 lb
Out	12/19/2011 15:26:48	Inside 1	ces		Tare	28020 lb
					Net	37440 lb
					Tons	18.72

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	18.72	Tons				MONROE-53

Total Tax
Total Ticket

er's Signature

H14 Tom Stevens

#11058

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCNIS ON BEHALF OF CSX

CSX Approval #:

20110888665 RJK-ASC

Transporter Signature:

Tom Stevens

Truck #:

#16

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.72

CS

Authorized Signature

12.19.11

Date (MM/DD/YY)

WASTE MANAGEMENT

1922090

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203670

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11057
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 35
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 14:44:27	Inside 1	ces		Gross	69720 lb
Out	12/19/2011 14:44:27		ces		Tare	28460 lb
					Net	41260 lb
					Tons	20.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.63	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Jon Dockard

403WM

#11057

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110888604 PJK-ASC

Transporter Signature:

Truck #:
#35

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.63

CD
Authorized Signature

12-19-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1922081

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203650

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11056
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 28
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 14:12:04	Inside 1	ces		Gross	67960 lb
Out	12/19/2011 14:12:04		ces		Tare	28640 lb
					Net	39320 lb
					Tons	19.66

Comments

P	uct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.66	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

#11056

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110886 63 PSK-ASC

Transporter Signature:

Truck #:

#28

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.66

Authorized Signature

12-19-11

Date (MM/DD/YY)

WASTE MANAGEMENT

1922071

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1203648

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11055
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 82 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	12/19/2011 13:46:48	Inside 1	ces		Gross	66700 lb
Out	12/19/2011 13:46:48		ces		Tare	28560 lb
					Net	38140 lb
					Tons	19.07

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.07	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

#11055

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: WITH ALCOVES
ON BEHALF OF CSX

CSX Approval #:
20110888G3 PSK-ASC

Transporter Signature:

Truck #:
#82

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 19.07

CD
Authorized Signature

12-19-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1922062

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203635

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11054
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 37
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 13:15:09	Inside 1	csm		Gross	70260 lb
Out	12/19/2011 13:15:09		csm		Tare	28780 lb
					Net	41480 lb
					Tons	20.74

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.74	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature



403WM

WASTE MANAGEMENT

11054

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ATTACHED ON BEHALF OF CSX

CSX Approval #:

20110886 PEC-AGC

Transporter Signature:

Truck #:

#37

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.74

Authorized Signature

12/19/11

Date (MM/DD/YY)

WASTE MANAGEMENT

1922056

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203627

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11053
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 12:57:04	Inside 1	csm		Gross	64840 lb
Out	12/19/2011 12:57:04		csm		Tare	28300 lb
					Net	36540 lb
					Tons	18.27

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.27	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

Tim Jarvis

103WM

#11653

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ADDS
[signature] ON BEHALF OF CSX

CSX Approval #:

20110888600 PSC-MSC

Transporter Signature:

[signature]

Truck #:

#17

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.27

[signature]
Authorized Signature

12/19/11
Date (MM/DD/YY)

WASTE MANAGEMENT

1922017

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203584

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11052
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 35
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 11:17:40	Inside 1	csm		Gross	72580 lb
Out	12/19/2011 11:17:40		csm		Tare	28460 lb
					Net	44120 lb
					Tons	22.06

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.06	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

WM

#11052

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARLADIS ON BEHALF OF CSX

CSX Approval #:
20110866.59 PSK-ASC

Transporter Signature:

Truck #:
#35

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.06

Authorized Signature

12/19/11
Date (MM/DD/YY)

WASTE MANAGEMENT

1922008

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203568

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11051
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

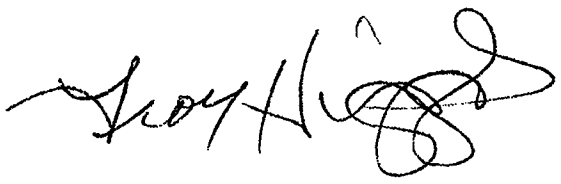
Carrier hanna trucking dump
Vehicle# 28
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 10:47:47	Inside 1	ces		Gross	69460 lb
Out	12/19/2011 11:01:22	Inside 1	ces		Tare	28640 lb
					Net	40820 lb
					Tons	20.41

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		20.41	Tons				MONROE-53



Total Tax
Total Ticket

river's Signature

103WM

#11051

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110886SS PSX-BSC

Transporter Signature:

Truck #:

#26

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.41

CD
Authorized Signature

12-19-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1922000

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203563

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11050
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 82
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 10:23:39	Inside 1	ces		Gross	72780 lb
Out	12/19/2011 10:23:39		ces		Tare	28560 lb
					Net	44220 lb
					Tons	22.11

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.11	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

#11050

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TON

Generator Signature:
WITH ADDS
[signature] ON BEHALF OF CSX

CSX Approval #:
20110885 7 PSK-ASC

Transporter Signature:
[signature]

Truck #:
#82

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.11

[signature]
Authorized Signature

12-19-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921997

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203551

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11049
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 37
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	79220 lb
In	12/19/2011 09:55:41	Inside 1	ces		Tare	28780 lb
Out	12/19/2011 10:13:42	Inside 1	ces		Net	50440 lb
					Tons	25.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	25.22	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



©WM

WASTE MANAGEMENT

11049

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110885G PSX-AGC

Transporter Signature:

Truck #:

37

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 25.22

CS

Authorized Signature

12-19-11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921989

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203542

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/19/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11048
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/19/2011 09:30:31	Inside 1	csm		Gross	74200 lb
Out	12/19/2011 09:51:55	Inside 1	ces		Tare	28300 lb
					Net	45900 lb
					Tons	22.95

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.95	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

Tom Hanna

403WM

#110448

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
30 TON

Generator Signature:
WITH ARCADIS
ON BEHALF of CSX

CSX Approval #:
2011088855 PSC-ASC

Transporter Signature:

Truck #:
#17

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.95

Authorized Signature

12-19-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921761

Twin Bridges
[illegible] Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-3070

Original
Ticket# 1203282

[illegible] Carrier Connerstone Dump
[illegible] Vehicle# 10 Volume
[illegible] Container
[illegible] Driver
[illegible] Check#
[illegible] Billing # 0001844
[illegible] Gen EPA ID
[illegible]
[illegible]
PO
[illegible] CONTAMINATED SOILS, STONE AND DEBRIS
[illegible] INDIANA BLOOMINGTON CSX TRANS-BLOOMINGTON

	Scale	Operator	Inbound		
[illegible]	Ineloc-1	ces		Gross	53760 lb
[illegible]		ces		Tare	28960 lb
[illegible]				Net	24800 lb
				Tons	12.40

[illegible]

Product	I/O	Qty	UOM	Rate	Tax	Amount	Origin
[illegible]	IN	12.40	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11047

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARLOIDS
ON BEHALF OF CSX

CSX Approval #:

20110885S4 PSK-ASC

Transporter Signature:

Truck #:

BC-10

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 12.43

Authorized Signature

12-5-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921760

Twin Bridges
[illegible] Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2578

Original
Ticket# 1703201

[illegible] Carrier: Cornerstone Disp
[illegible] Vehicle#: 17 Volume
[illegible] Customer
[illegible] Driver
[illegible] Check#
[illegible] Billing #: 0001344
[illegible] Gen ERM ID
[illegible]

[illegible] [illegible] CONTAMINATED SOILS, STONE AND DEBRIS)
[illegible] [illegible] INDIANA BLOOMINGTON CSV TRANS-BLOOMINGTON

	Scale	Operator	Inbound		
[illegible]	Indiana 1	cee		Gross	60920 lb
[illegible]		cee		Tare	25420 lb
[illegible]		cee		Net	35500 lb
				Tons	17.75

	LCY	Ton	UOM	Rate	Tax	Amount	Origin
[illegible]	[illegible]	17.75	Tons				MONROE-93

Terminal
Total Ticket

[illegible]

[illegible]

#11046

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110668S3 PSK-ASC

Transporter Signature:

Truck #:
BC-17

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 17.75

CD
Authorized Signature

12-15-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921752

Iron Bridges
[illegible] Iron Bridges Road
[illegible], IN, 46322
[illegible] 219 365 2070

Original
Ticket# 1203267

Customer Name: WM MAIL CS\ 6065[illegible] WM MAIL
Ticket Date: 10/17/2021
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code:
Manifest: 11045
Destination
PO
Profile: 6065[illegible] (EXCAVATED SOILS, STONE AND DEBRIS)
Generator: 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: Conoretone Disp
Vehicle#: 18
Container
Driver
Check#
Billing #: 3001944
Gen EPA ID

Volume

Scale: Inside 1
Operator: cas
Inbound

Gross: 67160 lb
Tare: 26780 lb
Net: 40380 lb
Ton: 20.19

Comment:

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprvsle Solid Dis- 100		20.19	Tons				NONROB 53

Total Tax
Total Ticket

Driver's Signature:

4GWM

#11045

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110885S2 PSK-AGC

Transporter Signature:

Truck #:

BC-18

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 20.19

Authorized Signature

12/5/11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921742

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203251

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11044
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 36 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	12/15/2011 15:02:45	Inside 1	ces		Gross	69060 lb
Out	12/15/2011 15:02:45		ces		Tare	28600 lb
					Net	40460 lb
					Tons	20.23

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.23	Tons				MONROE-53

Total Tax
Total Ticket

iver's Signature

Troy Higgs

WM

#11044

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ADDED ON BEHALF OF CSX

CSX Approval #:

20110885T PSK-ASC

Transporter Signature:

Truck #:

#36

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.23

CD
Authorized Signature

12.15.11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921739

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203243

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	hanna trucking dump
Ticket Date	12/15/2011	Vehicle#	82
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11043		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS--BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 14:37:48	Inside 1	ces		Gross	67100 lb
Out	12/15/2011 14:37:48		ces		Tare	28560 lb
					Net	38540 lb
					Tons	19.27

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.27	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

103WM

#11043

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TONS

Generator Signature:
WITH ARCADIS
[signature] ON BEHALF OF CSX

CSX Approval #:
2011088850 PSK-ASC

Transporter Signature:

Truck #:
#82

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 19.27

[signature]
Authorized Signature

12.15.11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921734

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203235

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11042
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 35
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 14:28:46	Inside 1	ces		Gross	68940 lb
Out	12/15/2011 14:28:46		ces		Tare	28460 lb
					Net	40480 lb
					Tons	20.24

Comments

I	Juct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.24	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Ian Oakland

403WM

#11042

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110884 9 PJK-ASC

Transporter Signature:

Truck #:

35

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.24

CD
Authorized Signature

12-15-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921728

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Phr 317-745-2876

Original
Ticket# 1203824

Customer Name WM NATL CSX 606414IN WM NATL Carrier Cornerstone Dump
Ticket Date 12/15/2011 Vehicle# 14 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 11041
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

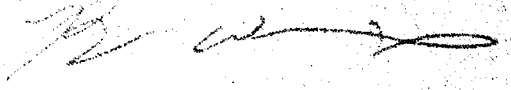
	Time	Scale	Operator	Inbound		
In	12/15/2011 14:11:25	Inside 1	ces		Gross	62160 lb
Out	12/15/2011 14:11:25		ces		Tare	27140 lb
					Net	35020 lb
					Tons	17.51

Comments

Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1 Sparable Solid Wh	100	17.51	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



408WM

#11041

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH APPROVAL ON BEHALF OF CSX

CSX Approval #:

20110886498 PSK-ASC

Transporter Signature:

Truck #:

BC-14

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.51

CD
Authorized Signature

12-15-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921710

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203205

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11040
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 10
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 13:16:17	Inside 1	csm		Gross	67120 lb
Out	12/15/2011 13:16:17		csm		Tare	28900 lb
					Net	38220 lb
					Tons	19.11

Comments

P	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.11	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11040

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
201108847 PSK-ASC

Transporter Signature:

Truck #:
BC-10

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.44

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921706

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203201

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump
Ticket Date	12/15/2011	Vehicle#	12
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11039		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 13:02:40	Inside 1	csm		Gross	62740 lb
Out	12/15/2011 13:02:40		csm		Tare	27540 lb
					Net	35200 lb
					Tons	17.60

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.60	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

#11039

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110886 46 · PJK-ASC

Transporter Signature:

Truck #:

BC-12

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 17.68

Authorized Signature

12/15/11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921700

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203195

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump	
Ticket Date	12/15/2011	Vehicle#	17	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	11038			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

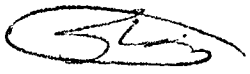
	Time	Scale	Operator	Inbound		
In	12/15/2011 12:44:18	Inside 1	csm		Gross	62960 lb
Out	12/15/2011 12:44:18		csm		Tare	25420 lb
					Net	37540 lb
					Tons	18.77

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth~	100	18.77	Tons				MONROE-53

Total Tax
Total Ticket

'iver's Signature



)3WM

#11038

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

2611088445 PAY-ASL

Transporter Signature:

Truck #:

BC-17

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.77

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921685

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203171

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11037
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 36 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	12/15/2011 11:41:04	Inside 1	ces		Gross	63900 lb
Out	12/15/2011 11:57:27	Inside 1	csm		Tare	28600 lb
					Net	35300 lb
					Tons	17.65

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.65	Tons				MONROE-53

Total Tax
Total Ticket

^iver's Signature

03WM

WASTE MANAGEMENT

#11037

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

2011088844 PJK-AGC

Transporter Signature:

Truck #:

#36

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.65

Authorized Signature

12/15/11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921677

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203155

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11036
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 82
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 11:14:00	Inside 1	ces		Gross	62480 lb
Out	12/15/2011 11:38:16	Inside 1	ces		Tare	28560 lb
					Net	33920 lb
					Tons	16.96

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.96	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

#11036

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110888 43 PSK-ASC

Transporter Signature:

Truck #:

#82

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.96

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921665

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203144

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11035
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier hanna trucking dump
Vehicle# 35
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 10:56:59	Inside 1	ces		Gross	65920 lb
Out	12/15/2011 11:12:01	Inside 1	ces		Tare	28460 lb
					Net	37460 lb
					Tons	18.73

Comments

Pr	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth--	100	18.73	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

103WM

#11035

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:

20110886#2 PSK-ASC

Transporter Signature:

Truck #:

#35

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.73

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921651

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203130

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11034
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 14
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

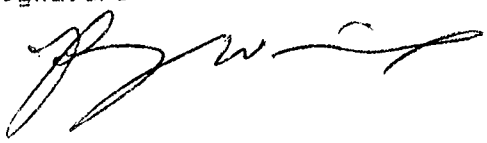
	Time	Scale	Operator	Inbound		
In	12/15/2011 10:34:53	Inside 1	ces		Gross	63080 lb
Out	12/15/2011 10:34:53		ces		Tare	27140 lb
					Net	35940 lb
					Tons	17.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.97	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM

#11034

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
90 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110888 41 PJK-ASC

Transporter Signature:

Truck #:
BC-14

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.97

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921674

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203166

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump	
Ticket Date	12/15/2011	Vehicle#	18	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	11033			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	12/15/2011 11:34:11	Inside 1	ces		Gross	64580 lb
Out	12/15/2011 11:34:11		ces		Tare	26780 lb
					Net	37800 lb
					Tons	18.90

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.90	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11033

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
2011088840 PSK-ASC

Transporter Signature:

Truck #:
BC-18

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.90

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921641

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203120

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump		
Ticket Date	12/15/2011	Vehicle#	10	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	11032				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	12/15/2011 10:01:25	Inside 1	ces		Gross	59260 lb
Out	12/15/2011 10:01:25		ces		Tare	28900 lb
					Net	30360 lb
					Tons	15.18

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.18	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11032

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110888 39 PSK-ASC

Transporter Signature:

Truck #:
BC-10

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.18

CD
Authorized Signature

12-15-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921638

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203115

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11031
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 12
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 09:53:45	Inside 1	ces		Gross	59380 lb
Out	12/15/2011 09:53:45		ces		Tare	27540 lb
					Net	31840 lb
					Tons	15.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.92	Tons				MONROE-53

Total Tax
Total Ticket

iver's Signature

WM

#11031

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
36 TON

Generator Signature:
WITH ABILITIES ON BEHALF OF CSX

CSX Approval #:
2011088838 PSK-ASC

Transporter Signature:

Truck #:
BC-12

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.92

CD

Authorized Signature

12-15-11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921630

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203105

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11030
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

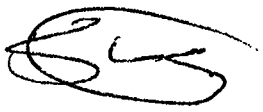
	Time	Scale	Operator	Inbound		
In	12/15/2011 09:37:41	Inside 1	ces		Gross	62160 lb
Out	12/15/2011 09:37:41		ces		Tare	25420 lb
					Net	36740 lb
					Tons	18.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.37	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature



403WM

WASTE MANAGEMENT

110 30

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH RECORDS ON BEHALF OF CSX

CSX Approval #:

20110888837 PSK-ASC

Transporter Signature:

Truck #:

BC-17

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.37

Authorized Signature

12.15.11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921586

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203057

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump		
Ticket Date	12/15/2011	Vehicle#	14	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	11029				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	12/15/2011 06:39:46	Inside 1	csm		Gross	61760 lb
Out	12/15/2011 06:39:46		csm		Tare	27140 lb
					Net	34620 lb
					Tons	17.31

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	17.31	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

403WM

#11029

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Street Address:
240 Country Club Drive

City:
Bloomington

Technical Contact:

Paul Kurzanski

County:
Monroe

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: WITH ADDED

CSX Approval #:

20110883G PSK-ASC

Transporter Signature:

Truck #:

BC-14

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.31

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921589

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203060

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11028
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 10
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 06:46:19	Inside 1	csm		Gross	57780 lb
Out	12/15/2011 06:46:19		csm		Tare	28900 lb
					Net	28880 lb
					Tons	14.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.44	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

03WM

WASTE MANAGEMENT

11028

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

80 TON

Generator Signature:

WITH ARLOOPS ON BEHALF OF CSX

CSX Approval #:

80110883S PSK-ASC

Transporter Signature:

Truck #:

BK-10

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 14.44

Authorized Signature

12/15/11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921580

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203051

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/15/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11027
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 18
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 06:13:45	Inside 1	csm		Gross	60940 lb
Out	12/15/2011 06:13:45		csm		Tare	26780 lb
					Net	34160 lb
					Tons	17.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.00	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

11027

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: WITH ARCADIS

ON BEHALF OF CSX

CSX Approval #:

20110834 PSK-ASC

Transporter Signature:

Truck #:

BC-18

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.08

Authorized Signature

12/15/11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921576

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203047

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump
Ticket Date	12/15/2011	Vehicle#	17
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11026		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/15/2011 05:44:54	Inside 1	csm		Gross	59360 lb
Out	12/15/2011 05:44:54		csm		Tare	25420 lb
					Net	33940 lb
					Tons	16.97

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.97	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM

#11026

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
80110833 PSK-ASC

Transporter Signature:

Truck #:
BC-17

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.97

Authorized Signature

Date (MM/DD/YY) 12/15/11

WASTE MANAGEMENT

1921513

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202984

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11014
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier HOOSIER EQUIP HOOSIER EQUIPMENT
Vehicle# 06
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 14:22:56	Inside 1	ces		Gross	60360 lb
Out	12/14/2011 14:22:56		ces		Tare	27640 lb
					Net	32720 lb
					Tons	16.36

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.36	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

03WM

WASTE MANAGEMENT

1921582

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1203053

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump		
Ticket Date	12/15/2011	Vehicle#	12	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	11025				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	12/15/2011 06:16:46	Inside 1	csm		Gross	60200 lb
Out	12/15/2011 06:16:46		csm		Tare	27540 lb
					Net	32660 lb
					Tons	16.33

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.33	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11025

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110843a PSK-ASC

Transporter Signature:

Truck #:
BC-12

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.33

Authorized Signature

12/15/11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921509

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202981

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump		
Ticket Date	12/14/2011	Vehicle#	14	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	11024				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound	Gross	51780 lb
In	12/14/2011 14:10:24	Inside 1	ces		Tare	27140 lb
Out	12/14/2011 14:10:24		ces		Net	24640 lb
					Tons	12.32

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	12.32	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11024

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
80 TON

Generator Signature: WITH ACCEPTS ON BEHALF OF CSX

CSX Approval #:
20110883.1 PSK-NSC

Transporter Signature:

Truck #:
BC-14

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 12.32

Authorized Signature

12.14.11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921497

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202969

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump
Ticket Date	12/14/2011	Vehicle#	10
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11023		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 13:37:16	Inside 1	ces		Gross	61080 lb
Out	12/14/2011 13:37:16		ces		Tare	28900 lb
					Net	32980 lb
					Tons	16.49

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.49	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11023

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ARCADIS ON BEHALF OF CSX

CSX Approval #:
20110686830 PSK-AGC

Transporter Signature:

Truck #:
BC-10

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 16.49

CD
Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921493

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202965

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11022
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 12
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 13:28:54	Inside 1	ces		Gross	65240 lb
Out	12/14/2011 13:28:54		ces		Tare	27540 lb
					Net	37700 lb
					Tons	18.85

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.85	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

WASTE MANAGEMENT

11022

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARLADIS
on behalf of CSX

CSX Approval #:

2011088629 PSK-ASC

Transporter Signature:

Truck #:

BC-12

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.85

CD

Authorized Signature

12-14-11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921489

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202961

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump
Ticket Date	12/14/2011	Vehicle#	18
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11021		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 13:22:33	Inside 1	ces		Gross	63920 lb
Out	12/14/2011 13:22:33		ces		Tare	26780 lb
					Net	37140 lb
					Tons	18.57

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		18.57	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature David Haskell

403WM

WASTE MANAGEMENT

#11021

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20110888888 PSK-A&C

Transporter Signature:

Truck #:

BC-18

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 18.57

Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921475

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1202946

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11020
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Cornerstone Dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 12:40:35	Inside 1	ces		Gross	66420 lb
Out	12/14/2011 12:40:35		ces		Tare	25420 lb
					Net	41000 lb
					Tons	20.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.50	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature



403WM

~~#1120~~
#11020

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
WITH ADDED ON BEHALF OF CSX

CSX Approval #:
2011088687 PSK-ASC

Transporter Signature:

Truck #:
BC-17

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.52

Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921431

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202894

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11019
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Cornerstone Dump
Vehicle# 14
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

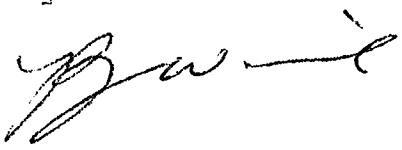
	Time	Scale	Operator	Inbound		
In	12/14/2011 10:45:29	Inside 1	ces		Gross	72520 lb
Out	12/14/2011 11:00:35	Inside 1	ces		Tare	27140 lb
					Net	45380 lb
					Tons	22.69

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.69	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM

WASTE MANAGEMENT

11019

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

WITH ABLOOPS
ON BEHALF OF CSX

CSX Approval #:

20110988260 PSK-ASC

Transporter Signature:

Truck #:

BC-14

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22 69

Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921412

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202878

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11018
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Cornerstone Dump
Vehicle# 10
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 10:10:02	Inside 1	ces		Gross	59480 lb
Out	12/14/2011 10:24:42	Inside 1	ces		Tare	28900 lb
					Net	30580 lb
					Tons	15.29

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.29	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

11018

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: WITH ADDED

on behalf of CSX

CSX Approval #:

201108825 PJK-ASC

Transporter Signature:

Truck #:

BC-10

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.29

CD

Authorized Signature

12-14-11

Date (MM/DD/YY)

WM STE MANAGEMENT

1921413

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202879

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Connerstone Dump
Ticket Date	12/14/2011	Vehicle#	12
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	11017		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 10:10:24	Inside 1	ces		Gross	51740 lb
Out	12/14/2011 10:24:59	Inside 1	ces		Tare	27540 lb
					Net	24200 lb
					Tons	12.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	12.10	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

11017

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/m ARCADIS on behalf of CSX

CSX Approval #:

20110824 PSK-ASC

Transporter Signature:

Truck #:

BC-12

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 12.10

Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921407

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202873

Customer Name	WM NATL CSX 6066414IN WM NATL	Carrier	Connerstone Dump	
Ticket Date	12/14/2011	Vehicle#	18	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	11016			
Destination				
PO				
Profile	6066414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	12/14/2011 09:57:03	Inside 1	ces		Gross	56780 lb
Out	12/14/2011 10:11:58	Inside 1	ces		Tare	26780 lb
					Net	30000 lb
					Tons	15.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.00	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

WASTE MANAGEMENT

11016

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature:

with ARCADIS on behalf of CSX

CSX Approval #:

201108833 PEK-ASC

Transporter Signature:

Truck #:

BC-18

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 15.00

Authorized Signature

12-14-11

Date (MM/DD/YY)

WASTE MANAGEMENT

1921396

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202858

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11015
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Connerstone Dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 09:24:44	Inside 1	ces		Gross	55900 lb
Out	12/14/2011 09:42:43	Inside 1	ces		Tare	25420 lb
					Net	30480 lb
					Tons	15.24

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.24	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

WASTE MANAGEMENT

11015

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: with ARCADIS on behalf of CSX

CSX Approval #:
20110822 PSK-ASC

Transporter Signature:

Truck #:
BC-17

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.24

Authorized Signature

12-14-11
Date (MM/DD/YY)

WASTE MANAGEMENT

1921513

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1202984

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 12/14/2011
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 11014
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier HOOSIER EQUIP HOOSIER EQUIPMENT
Vehicle# 06
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	12/14/2011 14:22:56	Inside 1	ces		Gross	60360 lb
Out	12/14/2011 14:22:56		ces		Tare	27640 lb
					Net	32720 lb
					Tons	16.36

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth~	100	16.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#11014

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
[signature] WITH ARLADIS ON BEHALF OF CSX

CSX Approval #:
20110882\ PSK-ASC

Transporter Signature:

Truck #:
06

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.36

[signature]
Authorized Signature

12-14-11
Date (MM/DD/YY)

12000 1

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

Generator Signature:

Eric Smith with ARCADIS on behalf of CSX

CSX Approval #:

20120000 81 PJK-ASC

Transporter Signature:

Dan K Taylor

Truck #:

T99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 39

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925129

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207150

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120001
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 09:51:27	Inside 1	ces		Gross	57780 lb
Out	01/12/2012 10:12:00	Inside 1	ces		Tare	27000 lb
					Net	30780 lb
					Tons	15.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		15.39	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

Dan R Tan

103WM

120002

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:
with ARCADIS
[signature] - on behalf of CSX

CSX Approval #:
2012 00002 PJK-ASC

Transporter Signature:
[signature]

Truck #:
T96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 12.60 T

CD
Authorized Signature

1-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925130

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207154

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120002
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/12/2012 09:55:19	Inside 1	ces		Gross	61260 lb
Out	01/12/2012 10:12:35	Inside 1	ces		Tare	26020 lb
					Net	35240 lb
					Tons	17.62

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	17.62	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

12-0003

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:
[signature] with ARCADIS on behalf of CSX

CSX Approval #:
20120003 PTK-ASC

Transporter Signature:
[signature]

Truck #:
SPS 04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

[signature]
Authorized Signature

12-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925139

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207166

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120003
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:17:28	Inside 1	ces		Gross	62340 lb
Out	01/12/2012 10:30:32	Inside 1	ces		Tare	27560 lb
					Net	34780 lb
					Tons	17.39

Comments

	Product	LDx	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.39	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

120004

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

with ARCADIS on behalf of CSX

CSX Approval #:

20120004 PSK-MSC

Transporter Signature:

Truck #:

SPE 01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925134

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207163

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120004
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

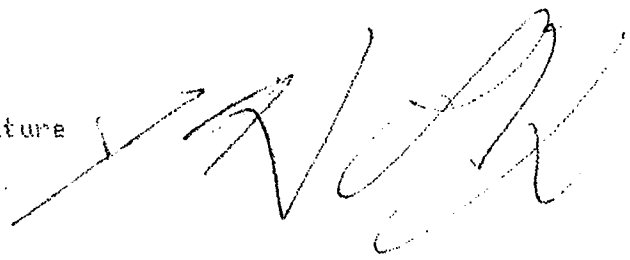
	Time	Scale	Operator	Inbound		
In	01/12/2012 10:14:44	Inside 1	ces		Gross	60600 lb
Out	01/12/2012 10:26:15	Inside 1	ces		Tare	28140 lb
					Net	32460 lb
					Tons	16.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



IWM

120005

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
[illegible] Tons

Generator Signature:
[signature] with ARCADIS on behalf of CSX

CSX Approval #:
2012 00005 PTK-ISC

Transporter Signature:
[signature]

Truck #:
[illegible]

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.95

[signature]
Authorized Signature

1-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925137

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207165

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120005
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	68700 lb
In	01/12/2012 10:16:30	Inside 1	ces		Tare	28800 lb
Out	01/12/2012 10:28:34	Inside 1	ces		Net	39900 lb
					Tons	19.95

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.95	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

103WM

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 Tons

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

SPE

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.84

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925136

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207164

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120006
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speade
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	71860 lb
In	01/12/2012 10:15:38	Inside 1	ces		Tare	28180 lb
Out	01/12/2012 10:28:25	Inside 1	ces		Net	43680 lb
					Tons	21.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY) 6-12-12

WASTE MANAGEMENT

1925152

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207177

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120007
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 312
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:37:23	Inside 1	ces		Gross	45160 lb
Out	01/12/2012 10:59:18	Inside 1	csm		Tare	26520 lb
					Net	18640 lb
					Tons	9.32

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	9.32	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



ISWM

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925154

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207180

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120008
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:39:33	Inside 1	ces		Gross	69000 lb
Out	01/12/2012 11:01:12	Inside 1	csm		Tare	26400 lb
					Net	42600 lb
					Tons	21.30

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		21.30	Tons				MONROE-53

River's Signature Brad Pace

Total Tax
Total Ticket

103WM

WM
WASTE MANAGEMENT

12.6.09

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
[illegible] Tons

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:
[illegible]

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.49

Authorized Signature

12-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925156

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207182

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120009
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:41:37	Inside 1	ces		Gross	69820 lb
Out	01/12/2012 11:03:16	Inside 1	csm		Tare	26940 lb
					Net	42880 lb
					Tons	21.44

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.44	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature



403WM

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 25.77

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925163

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207191

Customer Name WM NATL CSX G06414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120010
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:56:04	Inside 1	csm		Gross	78900 lb
Out	01/12/2012 11:12:21	Inside 1	csm		Tare	27360 lb
					Net	51540 lb
					Tons	25.77

Comments:

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	25.77	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section B — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 23.17

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925164

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207192

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120011
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 10:57:50	Inside 1	csm		Gross	73180 lb
Out	01/12/2012 11:14:14	Inside 1	csm		Tare	26840 lb
					Net	46340 lb
					Tons	23.17

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sprwste Solid Othr	100	23.17	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 Tons

Generator Signature:
Eric Genebe w/ ARCADIS on behalf of CSX

CSX Approval #:
20120012 PJK-ARC

Transporter Signature:

Truck #:
Huntley 3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.09

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925205

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207238

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120012
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

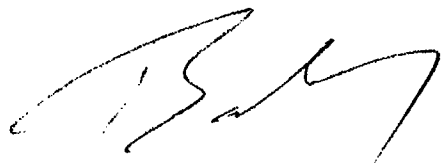
	Time	Scale	Operator	Inbound		
In	01/12/2012 12:44:47	Inside 1	csm		Gross	79560 lb*
Out	01/12/2012 13:03:10	Inside 1	csm		Tare	27380 lb
			* Manual Weight		Net	52180 lb
					Tons	26.09

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	26.09	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



WASTE MANAGEMENT

120013

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

with ARCADIS on behalf of CSX

CSX Approval #:

20120013 PJK-ASC

Transporter Signature:

Truck #:

Young 021

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 26.92 C

Authorized Signature

Date (MM/DD/YY) 12/12/12

WASTE MANAGEMENT

1925204

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207236

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120013
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Costruction pu
Vehicle# 21
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	81300 lb*
In	01/12/2012 12:42:13	Inside 1	csm		Tare	27500 lb
Out	01/12/2012 13:02:36	Inside 1	csm		Net	53800 lb
			* Manual Weight		Tons	26.90

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.90	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

120014

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
with ARCADIS
on behalf of CSX

CSX Approval #:
20120014 PJK-ASC

Transporter Signature:

Truck #:
Young #6

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925219

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207245

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120014
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Costruction pu
Vehicle# 6
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:11:01	Inside 1	csm		Gross	81620 lb
Out	01/12/2012 13:29:32	Inside 1	csm		Tare	28300 lb
					Net	53320 lb
					Tons	26.66

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sgwaste Solid Oth-	100	26.66	Tons				MONTGOMERY

Total Tax
Total Ticket

river's Signature



403WM

120015

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
Eric Jones with ARCADIS on behalf of CSX

CSX Approval #:
2012 0015 PJK-ASC

Transporter Signature:
Robert Burnette

Truck #:
39 Young

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.65

Authorized Signature

Date (MM/DD/YY) 11/2/12

WASTE MANAGEMENT

1925220

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207246

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120015
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Costruction pu
Vehicle# 39
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:12:46	Inside 1	csm		Gross	74720 lb
Out	01/12/2012 13:30:56	Inside 1	csm		Tare	25420 lb
					Net	49300 lb
					Tons	24.65

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprsste Solid Oth- 1ck		24.65	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

120016

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] with ARCADIS on behalf of CSX

CSX Approval #:
20120016 PJK-ASC

Transporter Signature:
[signature]

Truck #:
T 99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.15

[signature]
Authorized Signature

11/12/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925207

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207247

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120016
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:14:23	Inside 1	csm		Gross	75300 lb
Out	01/12/2012 13:14:23		csm		Tare	27000 lb
					Net	48300 lb
					Tons	24.15

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Wh-	100	24.15	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

Don K Taylor

403WM

120 017

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ AR CADLS on behalf of CSX

CSX Approval #:
20120 00017 PJK-ASC

Transporter Signature:

Truck #:
Young #1

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)
11/2/12

WASTE MANAGEMENT

1925232

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207261

Customer Name WM NATL CSX G06414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120017
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:35:07	Inside 1	csm		Gross	75300 lb
Out	01/12/2012 13:51:15	Inside 1	csm		Tare	28980 lb
					Net	46320 lb
					Tons	23.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		23.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12-0013

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

Transporter Signature:

Truck #:

T96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925211

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207251

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120018
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:18:51	Inside 1	csm		Gross	78400 lb
Out	01/12/2012 13:18:51		csm		Tare	26020 lb
					Net	52380 lb
					Tons	26.19

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.19	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

120019

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 000 19 PSE-ASC

Transporter Signature:

[signature]

Truck #:

SPE 01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: [illegible]

[signature]
Authorized Signature

[signature]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925212

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207252

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120019
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:20:34	Inside 1	csm		Gross	77780 lb
Out	01/12/2012 13:20:34		csm		Tare	28140 lb
					Net	49640 lb
					Tons	24.82

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	24.82	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

120120

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
w/ ARCADIS
on behalf of CSX

CSX Approval #:
2012000200 PJK - ASC

Transporter Signature:

Truck #:
Volvo VC

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 23.07

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925233

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207264

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120020
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 50 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:38:36	Inside 1	csm		Gross	73440 lb
Out	01/12/2012 13:52:41	Inside 1	csm		Tare	27300 lb
					Net	46140 lb
					Tons	23.07

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	23.07	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120021

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] w/ APPENDIX on behalf of CSX

CSX Approval #:
2012 0021 PJK-ASC

Transporter Signature:

Truck #:
SPE 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.09

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925224

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207203

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads
Ticket Date	01/12/2012	Vehicle#	3
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120021		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:36:51	Inside 1	csm		Gross	72980 lb
Out	01/12/2012 13:36:51		csm		Tare	28800 lb
					Net	44180 lb
					Tons	22.09

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.09	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120022

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Erin Shine w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 C00 22 RTT-NS

Transporter Signature:

Truck #:
SRE 02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.24

Authorized Signature

Date (MM/DD/YY) 11/21/12

WASTE MANAGEMENT

1925227

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207260

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120022
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:43:02	Inside 1	csm		Gross	72660 lb
Out	01/12/2012 13:43:02		csm		Tare	28180 lb
					Net	44480 lb
					Tons	22.24

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		22.24	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

403WM

WASTE MANAGEMENT

~~2720~~
120023

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00023 PJK-ASC

Transporter Signature:

Truck #:
SPE 04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 25.54

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925229

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207270

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120023
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 13:45:57	Inside 1	csm		Gross	79240 lb
Out	01/12/2012 13:45:57		csm		Tare	27560 lb
					Net	51680 lb
					Tons	25.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	25.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120024

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120024 PTK-MSC

Transporter Signature:

Truck #:

N/A

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 25.16

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925237

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207277

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120024
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 312
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 14:06:26	Inside 1	csm		Gross	76840 lb
Out	01/12/2012 14:06:26		csm		Tare	26520 lb
					Net	50320 lb
					Tons	25.16

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	25.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120025

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
201200025 PJK-ASG

Transporter Signature:

Truck #:
310

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.50

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925242

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207201

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	NAYLOR	
Ticket Date	01/12/2012	Vehicle#	310	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120025			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/12/2012 14:12:24	Inside 1	csm		Gross	69400 lb
Out	01/12/2012 14:12:24		csm		Tare	26400 lb
					Net	43000 lb
					Tons	21.50

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Odlr	100	21.50	Tons				MONROE-53

Total Tax
Total [illegible]

Driver's Signature

403WM

120026

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120026 PJK-HSC

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 1,520.9

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925241

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207200

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120026
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 14:11:44	Inside 1	csm		Gross	65120 lb
Out	01/12/2012 14:11:44		csm		Tare	26940 lb
					Net	38180 lb
					Tons	19.09

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	19.09	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

403WM

120027

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00027 PJK-ASC

Transporter Signature:

Truck #:

311 Naylor

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.75

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925245

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207206

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	NAYLOR
Ticket Date	01/12/2012	Vehicle#	311
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120027		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 14:20:38	Inside 1	csm		Gross	70920 lb
Out	01/12/2012 14:20:38		csm		Tare	27360 lb
					Net	43560 lb
					Tons	21.78

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.78	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

Bob H

120028

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
20120028 PJK-ASC

Transporter Signature:

Truck #:
Naylor 301

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.15

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925246

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207207

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120028
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 14:21:32	Inside 1	csm		Gross	63140 lb
Out	01/12/2012 14:21:32		csm		Tare	26840 lb
					Net	36300 lb
					Tons	18.15

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.15	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120029

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
20120029 RK-AS

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** [illegible]

Authorized Signature

1/12/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925286

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207320

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120029
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 49
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 15:52:44	Outside 1	ces		Gross	56940 lb
Out	01/12/2012 16:08:53	Inside 1	ces		Tare	28140 lb
					Net	28800 lb
					Tons	14.40

Comments

Product	LDM	Qty	UOM	Rate	Tax	Amount	Origin
1 Specific Solid Ind.	10%	14.40	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120030

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] v/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00030 PJK-ASC

Transporter Signature:
[signature]

Truck #:
Truck 23

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.84

[signature]
Authorized Signature

1-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925285

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207326

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120030
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 23
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 15:49:23	Outside 1	ces		Gross	56620 lb
Out	01/12/2012 16:08:11	Inside 1	ces		Tare	28940 lb
					Net	27680 lb
					Tons	13.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Steve Evans

403WM

WASTE MANAGEMENT

120031

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ARCADIS
on behalf of CSX

CSX Approval #:

20120031 PJK-ASC

Transporter Signature:

Truck #:

Young 138

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.97

Authorized Signature

1-12-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925283

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207327

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120031
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 38
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 15:51:08	Outside 1	ces		Gross	65960 lb
Out	01/12/2012 16:06:20	Inside 1	ces		Tare	26020 lb
					Net	39940 lb
					Tons	19.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Special Solid Oth-	100	19.97	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120032

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00032 PJK-ASC

Transporter Signature:

Truck #:
SPE 01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.37

Authorized Signature

1.13.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925287

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207335

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120032
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:13:40	Inside 1	ces		Gross	76880 lb
Out	01/12/2012 16:13:48		ces		Tare	28140 lb
					Net	48740 lb
					Tons	24.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		24.37	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120033

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ATTACHED on behalf of CSX

CSX Approval #:
20120033 PTK - 15.

Transporter Signature:

Truck #:
96 Taylor

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18-13

Authorized Signature

1-12-12
Date (MM/DD/YY)

WM
STE MANAGEMENT

1925295

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1207341

ustomer Name	WM NATL CSX 606414IN WM NATL	Carrier	Taylor Trucking Dump
icket Date	01/12/2012	Vehicle#	t96 Volume
ayment Type	Credit Account	Container	
anual Ticket#		Driver	
auling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120033		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:38:03	Inside 1	ces		Gross	62250 lb
Out	01/12/2012 16:38:03		ces		Tare	26020 lb
					Net	36230 lb
					Tons	18.13

Comments

	roduct	LDY	Qty	UOM	Rate	Tax	Amount	Origin
1	Sowaste Solid Othr 100		18.13	Tons				MONROE-02

Total Tax
Total Ticket

Driver's Signature

403WM

120034

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ MRCADIS on behalf of CSX

CSX Approval #:
2012000084 PJK-ASC

Transporter Signature:
Dan L Taylor

Truck #:
T 99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.66

Authorized Signature

6-19-17
Date (MM/DD/YY)

WASTE MANAGEMENT

1925292

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207240

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120034
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:37:23	Inside 1	ces		Gross	64320 lb
Out	01/12/2012 16:37:23		ces		Tare	27000 lb
					Net	37320 lb
					Tons	18.66

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Soils Other 100		18.66	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Dan Taylor

403WM

120035

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

28 T

Generator Signature:

w/ approvals on behalf of CSX

CSX Approval #:

2012-00035 PJK-TESC

Transporter Signature:

Truck #:

~~SPE 03~~ Huntley 3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.16

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925291

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207329

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120035
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:28:02	Inside 1	ces		Gross	62300 lb
Out	01/12/2012 16:28:03		ces		Tare	27380 lb
					Net	34920 lb
					Tons	17.46

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.46	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120036

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012-00036 PJK-ARC

Transporter Signature:

Truck #:
SPE 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 T

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925290

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207330

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120036
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:27:18	Inside 1	ces		Gross	63880 lb
Out	01/12/2012 16:27:18		ces		Tare	28800 lb
					Net	35080 lb
					Tons	17.54

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.54	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120037

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120037

Transporter Signature:

Truck #:

SPE 04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18 YT

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925294

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207342

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120037
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:38:59	Inside 1	ces		Gross	65320 lb
Out	01/12/2012 16:38:59		ces		Tare	27560 lb
					Net	37760 lb
					Tons	18.88

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth	100	18.88	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120038

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS
Emery Dunne on behalf of CSX

CSX Approval #:
2012 00038 PJK-MSC

Transporter Signature:

Truck #:
SPE 62.

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20

(illegible)
Authorized Signature

1.10.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925295

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207343

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/12/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120038
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/12/2012 16:41:12	Inside 1	ces		Gross	60120 lb
Out	01/12/2012 16:41:12		ces		Tare	28180 lb
					Net	31940 lb
					Tons	15.97

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Special Solid Othr 100		15.97	Tons				MONROE,IN

Total Tax
Total Ticket

Driver's Signature

403WM

120039

Industrial Waste Disposal Manifest

Profile Number: 606414IN__

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012-00039 PJK-ASC

Transporter Signature:

Truck #:

SPE 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.76

Authorized Signature

Date (MM/DD/YY) 1.13.12

WASTE MANAGEMENT

1925355

Twin Bridges .
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207404

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads	
Ticket Date	01/13/2012	Vehicle#	3	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120039			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/13/2012 09:41:18	Inside 1	ces		Gross	56320 lb
Out	01/13/2012 09:41:18		ces		Tare	28800 lb
					Net	27520 lb
					Tons	13.76

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	13.76	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120040

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T.

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120040

Transporter Signature:

Truck #:

SPE 02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 14.36

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925356

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207405

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120040
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 09:43:25	Inside 1	ces		Gross	56900 lb
Out	01/13/2012 09:43:25		ces		Tare	28180 lb
					Net	28720 lb
					Tons	14.36

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	14.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120041

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Emily Jones w/ARCADIS on behalf of CSX

CSX Approval #:
2012 00041 PJK-ATSC

Transporter Signature:

Truck #:
Y 138

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 12.35

Authorized Signature

1-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925365

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207415

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120041
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 38
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:09:29	Inside 1	ces		Gross	50740 lb
Out	01/13/2012 10:09:29		ces		Tare	26020 lb
					Net	24720 lb
					Tons	12.36

Comments

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
1 Operate Solid Oth- 100		12.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120042

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00 12 PTK-ASC

Transporter Signature:
Steve K. Ford

Truck #:
Y 23

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.01

Authorized Signature

Date (MM/DD/YY)
12-13-12

WASTE MANAGEMENT

1925366

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207417

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Young Trucking dump
Ticket Date	01/13/2012	Vehicle#	23
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120042		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:10:39	Inside 1	ces		Gross	60960 lb
Out	01/13/2012 10:10:39		ces		Tare	28940 lb
					Net	32020 lb
					Tons	16.01

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	16.01	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Steve Evans

403WM

12043

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 [illegible]

Transporter Signature:

Truck #:
734

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.19

Authorized Signature

1-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925370

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 120741

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120043
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 34 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	55600 lb
In	01/13/2012 10:11:45	Inside 1	ces		Tare	28020 lb
Out	01/13/2012 10:27:36	Inside 1	ces		Net	27580 lb
					Tons	13.79

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.79	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

03WM

120094

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: with ARCADIS
[signature] on behalf of CSX

CSX Approval #:

2011 0CC14 [illegible]

Transporter Signature:

[signature]

Truck #:

4 49

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 13.70

[signature]
Authorized Signature

9-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925367

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207419

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120044
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 49
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:12:43	Inside 1	ces		Gross	55580 lb
Out	01/13/2012 10:12:43		ces		Tare	28140 lb
					Net	27440 lb
					Tons	13.72

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	13.72	Tons				MONROE-IN

Total Tax
Total Ticket

river's Signature

103WM

120045

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 [illegible] PJK ASC

Transporter Signature:

Truck #:

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 13-33

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925374

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207421

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120045
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 2 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:13:51	Inside 1	ces		Gross	54760 lb
Out	01/13/2012 10:32:51	Inside 1	ces		Tare	28100 lb
					Net	26660 lb
					Tons	13.33

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.33	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120046

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: with ARCADIS on behalf of CSX

CSX Approval #:

2012.0046 PTS-ASC

Transporter Signature:

Truck #:

46

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 14.35 T

Authorized Signature

1/13/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925363

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207413

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Young Trucking dump
Ticket Date	01/13/2012	Vehicle#	6
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120046		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:07:35	Inside 1	ces		Gross	57040 lb
Out	01/13/2012 10:07:35		ces		Tare	28300 lb
					Net	28740 lb
					Tons	14.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sp Waste Solid [illegible]	100	14.37	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120047

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ RECADIS
Greg Howe on behalf of CSX

CSX Approval #:
2012 00017 PJK - ASC

Transporter Signature:

Truck #:
Y

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925372

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207426

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Young Trucking dump
Ticket Date	01/13/2012	Vehicle#	1
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120047		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:21:36	Inside 1	ces		Gross	63620 lb
Out	01/13/2012 10:31:36		ces		Tare	28980 lb
					Net	34640 lb
					Tons	17.32

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth	100	17.32	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120048

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
with ARCADIS on behalf of CSX

CSX Approval #:
2012 [illegible]

Transporter Signature:

Truck #:
N 301

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.18

Authorized Signature

11/13/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925375

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207420

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120040
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:35:28	Inside 1	ces		Gross	57200 lb
Out	01/13/2012 10:35:28		ces		Tare	26840 lb
					Net	30360 lb
					Tons	15.18

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	15.18	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12049

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ACCEPTS
Emily Shinn on behalf of CSX

CSX Approval #:

2012-00049 PTF #'s

Transporter Signature:

Truck #:

N 311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.00

CD
Authorized Signature

12-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925376

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207429

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120049
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:36:07	Inside 1	ces		Gross	57360 lb
Out	01/13/2012 10:36:07		ces		Tare	27360 lb
					Net	30000 lb
					Tons	15.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.00	Tons				MONROE-53

Bob H.
Driver's Signature

Total Tax
Total Ticket

403WM

12005C

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

2e: T

Generator Signature: w/ ATR CADIS

Tracy [illegible] on behalf of CSX

CSX Approval #:

200 00050 PPF-1150

Transporter Signature:

[illegible] Porter

Truck #:

NJ 310

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.24

[illegible]

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925381

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207435

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120050
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:48:53	Inside 1	ces		Gross	60880 lb
Out	01/13/2012 10:48:53		ces		Tare	26400 lb
					Net	34480 lb
					Tons	17.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Operate Solid Whs	100	17.24	Tons				MONROE IN

Driver's Signature

403WM

120051

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 0051 PTE ASC

Transporter Signature:

Truck #:

312

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.41

CS

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925379

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207433

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120051
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 312
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:46:58	Inside 1	ces		Gross	53360 lb
Out	01/13/2012 10:46:58		ces		Tare	26520 lb
					Net	26840 lb
					Tons	13.42

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.42	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature

403WM

120 052

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012-00052 PJE-ASC

Transporter Signature:

Truck #:

N 305

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.04

Authorized Signature

11-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925380

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207434

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120052
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 10:48:13	Inside 1	ces		Gross	57220 lb
Out	01/13/2012 10:48:13		ces		Tare	26940 lb
					Net	30280 lb
					Tons	15.14

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.14	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120053

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20-T

Generator Signature:
w/ ARCADIS
Tony Hume on behalf of CSX

CSX Approval #:
2012.0053 PJF ASC

Transporter Signature:
Kim Headley

Truck #:
A + 13F

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15-20

Authorized Signature

12-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925389

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207445

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120053
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:02:37	Inside 1	ces		Gross	56900 lb
Out	01/13/2012 11:02:37		ces		Tare	25780 lb
					Net	31120 lb
					Tons	15.56

Comments

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.56	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120054

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX.

CSX Approval #:
2612000094 IN ABC

Transporter Signature:

Truck #:
A-1 1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.35

Authorized Signature

1.13.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925390

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207446

Customer Name	WM NATL CSX 6064141N WM NATL	Carrier	APlus dump
Ticket Date	01/13/2012	Vehicle#	1316
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120054		
Destination			
PO			
Profile	6064141N (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:03:29	Inside 1	ces		Gross	59000 lb
Out	01/13/2012 11:03:29		ces		Tare	26300 lb
					Net	32700 lb
					Tons	16.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Ot	100	16.35	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120055

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ APCATO IS on behalf of CSX

CSX Approval #:
2012 00055 PJK ASC

Transporter Signature:

Truck #:
A+ 313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.05 T

Authorized Signature

Date (MM/DD/YY) 11-13-12

WASTE MANAGEMENT

1925395

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207458

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120055
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:18:55	Inside 1	ces		Gross	56480 lb
Out	01/13/2012 11:18:55		ces		Tare	[illegible] lb
					Net	30100 lb
					Tons	15.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.05	Tons				MONROE 53

Total Tax
Total Ticket

Driver's Signature Steve

403WM

WASTE MANAGEMENT

120056

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
20120605G PJF - ASC

Transporter Signature:
Brian Rockstroh

Truck #:
A+ 1300

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.79

Authorized Signature

6-13-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925396

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207453

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120052G
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:19:53	Inside 1	ces		Gross	56660 lb
Out	01/13/2012 11:19:53		ces		Tare	25220 lb
					Net	31440 lb
					Tons	15.72

Comments:

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Special Solid Othr	100	15.72	Tons				MONROE-IN

Total Tax
Total Ticket

Driver's Signature

403WM

120057

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Tony Shuck on behalf of CSX with TRACIS

CSX Approval #:
20120005H PJK-ASC

Transporter Signature:

Truck #:
Y4

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPF Number: 32-2

Amount: 19.01

Authorized Signature

1.13.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925404

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207440

Customer Name WM NATL CSX 6064141N,WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120057
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:12:29	Outside 1	ces		Gross	57080 lb
Out	01/13/2012 11:37:42	Inside 1	ces		Tare	29060 lb
					Net	28020 lb
					Tons	14.01

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sprwaste Solid Oth-	100	14.01	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120058

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Eric Jones w/ 4824015 on behalf of CSX

CSX Approval #:

2012 00058 PJK - ASC

Transporter Signature:

Truck #:

A+ 1309

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 14.26

CD

Authorized Signature

1-13-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925400

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207458

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump	
Ticket Date	01/13/2012	Vehicle#	1309	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120050			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/13/2012 11:33:00	Inside 1	ces		Gross	54160 lb
Out	01/13/2012 11:33:00		ces		Tare	25640 lb
					Net	28520 lb
					Tons	14.26

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.26	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120059

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
22 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012000509 PJK-ASC

Transporter Signature:

Truck #:
Y7

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16,95

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925416

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207460

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Young Trucking dump
Ticket Date	01/13/2012	Vehicle#	7
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120059		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:02:41	Inside 1	csm		Gross	53320 lb
Out	01/13/2012 12:26:32	Inside 1	csm		Tare	31340 lb
					Net	21980 lb
					Tons	10.99

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	10.99	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120060

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
20120060 PJK-TSC

Transporter Signature:

Truck #:
4 12

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925420

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207470

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120060
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 12
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:07:24	Inside 1	csm		Gross	68320 lb
Out	01/13/2012 12:32:29	Inside 1	csm		Tare	30160 lb
					Net	38200 lb
					Tons	19.10

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Separate Solid Waste 100		19.10	Tons				MONROE CO

Total Tax
Total Ticket

Driver's Signature

403WM

120061

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: w/ APPROVAL on behalf of CSX

CSX Approval #:

2012 000061 PJK-dtk.

Transporter Signature:

Truck #:

Y 17

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 13.65

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925418

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207469

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 12006J
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:05:40	Inside 1	csm		Gross	55860 lb
Out	01/13/2012 12:29:59	Inside 1	csm		Tare	26660 lb
					Net	29200 lb
					Tons	14.60

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	14.60	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature P. Knapp

403WM

120062

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

CSX Approval #:

20120062 PSK-ASC

Transporter Signature:

Truck #:

H 3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925424

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207483

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Huntley Excavating	
Ticket Date	01/13/2012	Vehicle#	3	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120062			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:42:14	Inside 1	csm		Gross	61490 lbs
Out	01/13/2012 12:42:14		csm		Tare	27200 lbs
			* Manual Weight		Net	34060 lb
					Tons	17.03

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.03	Tons				MONROE-IN

Driver's Signature

Total Tax
Total Ticket

403WM

120063

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012-00063 PJK-ASC

Transporter Signature:

Truck #:

41

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.75

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925423

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207473

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120063
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:15:35	Inside 1	csm		Gross	63420 lb
Out	01/13/2012 12:41:17	Inside 1	csm		Tare	27960 lb
					Net	35460 lb
					Tons	17.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.73	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00064 FJK APC

Transporter Signature:

Truck #:

43

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925421

Twin Bridges
[illegible] Twin Bridges Road
[illegible]nville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207472

Customer Name WM NATL CSX 6066414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120064
Destination
PO
Profile 6066414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound*	Gross	64600 lb
In	01/13/2012 12:13:53	Inside 1	csm		Tare	27440 lb
Out	01/13/2012 12:38:25	Inside 1	csm		Net	37160 lb
					Tons	18.58

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.58	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature

403WM

120065

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Erin Jones w/ Arcadis on behalf of CSX

CSX Approval #:
20120065 PJK - As

Transporter Signature:

Truck #:
141

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.12

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925442

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1207484

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120065
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 41
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:43:51	Inside 1	csm		Gross	64040 lb
Out	01/13/2012 13:53:03	Inside 1	csm		Tare	27800 lb
					Net	36240 lb
					Tons	18.12

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sqwaste Solid Othr 100		18.12	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120066

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
20120006 PJK ASC

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925441

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207487

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120066
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 28
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:46:36	Inside 1	csm		Gross	58520 lb
Out	01/13/2012 13:52:31	Inside 1	csm		Tare	27280 lb
					Net	31240 lb
					Tons	15.62

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.62	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Steve Wagley

403WM

120067

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00067 PJK-ASC

Transporter Signature:

Truck #:
Y9

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 13.25

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925443

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207495

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120067
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 9 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:21:03	Inside 1	csm		Gross	60520 lb
Out	01/13/2012 13:53:47	Inside 1	csm		Tare	32940 lb
					Net	27580 lb
					Tons	13.79

Comments

Product	LDF	Qty	UOM	Date	Tax	Amount	Origin
Special Solid Wh-	100	13.79	Tons				MONROE-[illegible]

Total Tax
Total Ticket

River's Signature B. T/Smith

403WM

120 0688

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 000 68 PJA-ASC

Transporter Signature:

Truck #:
Y6

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 5, 6 3

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925432

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317 745 2078

Original
Ticket# 1207494

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120068
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINSTON

Carrier Young Trucking dump
Vehicle# 6
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:20:02	Inside 1	csm		Gross:	59560 lb
Out	01/13/2012 13:20:02		csm		Tare	28300 lb
					Net	31260 lb
					Tons	15.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwacte Soils Only- 100		15.63	Ton.				MONROE CO

Total Tax
Total Ticket

Driver's Signature

403WM

120069

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ APCADS on behalf of CSX

CSX Approval #:
20120069 PK-ASC

Transporter Signature:

Truck #:
Y139

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.33

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925434

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207497

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120069
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 38
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:25:02	Inside 1	csm		Gross	57780 lb
Out	01/13/2012 13:25:02		csm		Tare	26020 lb
					Net	31760 lb
					Tons	15.88

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sprwaste Solid Oth - 100		15.88	Tons				MUNKER-55

Total Tax
Total Ticket

Driver's Signature

403WM

6

120 070

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ Arcadis on behalf of CSX

CSX Approval #:
20121007.0 PJK-ASC

Transporter Signature:

Truck #:
Y2

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.27

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925436

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207499

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120070
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:[illegible]	Inside 1	csm		Gross	50640 lb
Out	01/13/2012 13:29:32		csm		Tare	[illegible] lb
					Net	30540 lb
					Tons	15.27

Comments

	Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1	Sweets Solid Oth- 100		15.27	Tons				MONROE-03

Doug Hamm

Total Tax
Total Ticket

Driver's Signature

403WM

120071

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00071 PJK - ASC

Transporter Signature:

Truck #:
Y 49

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 6.69

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925438

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 120750

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120071
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 49
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:38:37	Inside 1	csm		Gross	61520 lb
Out	01/13/2012 13:30:37		csm		Tare	28140 lb
					Net	33380 lb
					Tons	16.69

Comments

	Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1	Sweepie Solid Oth	100	16.69	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120072

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 +

Generator Signature:

Eric Dune w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00072 PJK - ASC

Transporter Signature:

Steve R. Gwaltney

Truck #:

Y23

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.69

Authorized Signature

11/3/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925439

Twin Bridges
323 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket 1925439

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1200 722
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS).
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 23
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:47:0[illegible]	Inside 1	csm		Gross	62320 lb
Out	01/13/2012 13:47:06		csm		Tare	29940 lb
					Net	32380 lb
					Tons	16.19

Comments

Product	LDM	Qty	UOM	Rate	Tax	Amount	Origin
Sprwste Solid Othr	100	16.19	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Steve Evans

403WM

120073

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012-00073 PJK-ASC

Transporter Signature:

Truck #:

Y34

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15/4

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925440

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1925440

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120073
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 34
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:51:17	Inside 1	csm		Gross	58300 lb
Out	01/13/2012 13:51:17		csm		Tare	[illegible] lb
					Net	30200 lb
					Tons	15.14

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Operate Solid Othr	100	15.14	Tons				NORFOLK-SO

Total Tax
Total Ticket

Driver's Signature

403WM

120074

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ MRCATDIS on behalf of CSX

CSX Approval #:
2012 00074 PJK-ASC

Transporter Signature:

Truck #:
436

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 14.15

Authorized Signature

Date (MM/DD/YY) 1/13/12

WASTE MANAGEMENT

1925460

Twin Bridges
123 Twin Bridges Road
[illegible]

Original
Ticket# 1207504

Customer Name WM NATL CSX 0006414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120074
Destination
PO
Profile 0006414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS PLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 36
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	56900 lb
In	01/13/2012 13:50:32	Inside 1	csm		Tare	20600 lb
Out	01/13/2012 14:45:16	Inside 1	csm		Net	20300 lb
					Tons	14.15

Comments

Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 10W		14.15	Tons				[illegible]

Total Tax
Total Charge

Driver's Signature

403WM

(20075

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 CY

Generator Signature:

Emily Hulse w/ ARCADIS on behalf of CSX

CSX Approval #:

20120075 PJK ASC

Transporter Signature:

Truck #:

N 301

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.23

Authorized Signature

Date (MM/DD/YY) 11/30/12

WASTE MANAGEMENT

1925444

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207507

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1200075
Destination
PO
Profile E06414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 13:55:04	Inside 1	csm		Gross	57300 lb
Out	01/13/2012 13:55:04		csm		Tare	26840 lb
					Net	30460 lb
					Tons	15.23

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Special Solid Othr 100		15.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120076

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS
on behalf of CSX

CSX Approval #:

20120076 PJK misc

Transporter Signature:

Truck #:

Yi

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.67

Authorized Signature

Date (MM/DD/YY) 11/3/12

WASTE MANAGEMENT

1925453

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207517

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120076
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 14:18:20	Inside 1	csm		Gross	64320 lb
Out	01/13/2012 14:18:20		csm		Tare	28980 lb
					Net	35340 lb
					Tons	17.67

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sp Waste Solid Othr 100		17.67	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120077

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
20120077 PJT-ASC

Transporter Signature:

Truck #:
N312

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 4.65

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925449

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2678

Original
Ticket# 1207512

Customer Name WM NATL CSX 6064141N WM NATI
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120077
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 312
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	55820 lb
In	01/13/2012 14:11:57	Inside 1	csm		Tare	40720 lb
Out	01/13/2012 14:11:57		csm		Net	15100 lb
					Tons	14.65

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Upwaste Solid Othr 100		14.65	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

120078

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS
Tim Lane on behalf of CSX

CSX Approval #:
200 00078 PJK - ASC

Transporter Signature:

Truck #:
N 311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 T

Authorized Signature

Date (MM/DD/YY) 11/3/12

WASTE MANAGEMENT

1925450

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207513

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 10078
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 14:12:32	Inside 1	csm		Gross	56000 lb
Out	01/13/2012 14:12:32		csm		Tare	27360 lb
					Net	29440 lb
					Tons	14.72

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Sowaste Solid (NI	100	14.72	Tons				MONROE CO

Total Tax
Total Ticket

Driver's Signature

403WM

120079

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ AR CARDS
Corey Gunn on behalf of CSX

CSX Approval #:
2012 00079 PTK ASC

Transporter Signature:

Truck #:
N 310

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 2.39

Authorized Signature

Date (MM/DD/YY) 11/3/12

WASTE MANAGEMENT

1925454

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207519

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120079
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Ticket	Operator	Inbound		
In	01/13/2012 14:18:47	1207519	CSX		Gross	53180 lb
Out	01/13/2012 15:20:41				Tare	32400 lb
					Net	20780 lb
					Tons	10.39

Comments

	Product	LOC	Qty	UOM	Rate	Tax	Amount	Origin
1	Sanitary Solid Wa	10W	10.39	TON				MONROE-IN

Total Tax
Total Ticket

Driver's Signature

403WM

120080

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
20120008U PJK-ASC

Transporter Signature:

Truck #:
A+ 317

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.13

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925459

Twin Bridges
323 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1297524

Customer Name UN NATL CSX 606414IN WM NAT
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120006
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-1ST TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Offsite dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Scr EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	58040 lb
In	01/13/2012 14:44:29	Inside 1	csm		Tare	25720 lb
Out	01/13/2012 14:44:39		csm		Net	32320 lb
					Tons	16.16

Comments

	Product	Lbs	Qty	UOM	Rate	Tax	Amount	Origin
1	Sprwaste Solid Wlr	100	16.16	Tons				MONROE-SS

Total Tax
Total Ticket

Driver's Signature

03WM

120051

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00081 PTK-ASC

Transporter Signature:

Truck #:
A+ 136

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.26

Authorized Signature

Date (MM/DD/YY) 11/30/12

WASTE MANAGEMENT

1925461

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 12075220

Customer Name WM MOBIL CO\ C064141N WM MOBI
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120051
Destination
PO
Profile C064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier MPlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 00001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 14:47:44	Inside 1	csm		Gross	56820 lb
Out	01/13/2012 14:47:44		csm		Tare	26300 lb
					Net	30520 lb
					Tons	15.26

Comments

Product	LD7	Qty	UOM	Rate	Tax	Amount	Origin
1 Special Solid Oth-	100	15.26	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120082

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ MECHANIS on behalf of CSX

CSX Approval #:
20120082 PTK-ASC

Transporter Signature:

Truck #:
N 505

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 12.93

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925458

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207523

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120082
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 205
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 14:36:58	Inside 1	css		Gross	52000 lb
Out	01/13/2012 14:36:58		css		Tare	20940 lb
					Net	25060 lb
					Tons	12.53

Comments

	Product	LDS	Qty	UOM	Rate	Tax	Amount	Origin
1	Sweeste Solid Oth- 100		12.53	Tons				MONROE 53

Total Tax
Total Ticket

Driver's Signature

403WM

120083

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ Arcadis on behalf of CSX

CSX Approval #:
2012C0083 - PJK ASC

Transporter Signature:

Truck #:
44

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.3 C

Authorized Signature

Date (MM/DD/YY)
1/3/12

WASTE MANAGEMENT

1925462

Twin Bridges
103 Twin Bridges Road
Danville, IN, 46122
(317) 745-2075

Original
Ticket# 1925462

Customer Name WM NAIL CSX 6064141N WM NAIL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120083
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 4 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/13/2012 14:48:39	Inside 1	csm		Gross	59660 lb
Out	01/13/2012 14:48:59		csm		Tare	29060 lb
					Net	30600 lb
					Tons	15.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Sweate Solid Was	100	15.30	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120084

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00084 PJB-ASC

Transporter Signature:

Truck #:
A+ 1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925478

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207547

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120084
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 12:42:26	Scale 1	csm		Gross	58080 lb
Out	01/13/2012 13:42:37		csm		Tare	25660 lb
					Net	32420 lb
					Tons	16.21

Comments

	Products	LOC	Qty	UOM	Rate	Tax	Amount	Origin
1	Opaque Solid (Min 100		16.21	Tons				LOWDEL-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120085

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Emily Jones c/o ARCADIS on behalf of CSX

CSX Approval #:
20120085 PJK - ASC.

Transporter Signature:
Steve Mitchell

Truck #:
A+ 1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 T

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925479

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207540

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120085
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 15:44:22	Inside 1	csm		Gross	53320 lb
Out	01/13/2012 15:44:22		csm		Tare	26380 lb
					Net	26940 lb
					Tons	13.47

Comments

	Product	LDM	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwarte Solid Wsh- 100		13.47	Tons				MONROE-53

Total Tax
on Ticket

Driver's Signature Steve Howell

403WM

120086

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 t

Generator Signature: on behalf of CSX

CSX Approval #:
2012 000 86 PJK-ASC

Transporter Signature:

Truck #:
A+ 1315

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13.37

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925480

Twin Bridges
185 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2570

Original
Ticket# 1507549

Customer Name: WM MID-IL CSX (006414IN WM MIDIL
Ticket Date: 01/13/2012
Payment Type: Credit Account
Manual Ticket#:
Hauling Ticket#:
Route:
State Waste Code:
Manifest: 120086
Destination:
PO:
Profile: 006414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator: 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: OPTIONS Disp:
Vehicle#: 1215
Container:
Driver:
Truck:
Billing #: 80001944
Ext. ERC ID:

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 15:45:18	Inside 1	csm		Gross	53320 lb
Out	01/13/2012 15:45:18		csm		Tare	26580 lb
					Net	26740 lb
					Tons	13.37

Comments:

	Product	LDA	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.37	Tons				MONROE, IN

Total Tax:
Total Ticket:

Driver's Signature:

403WM

120087

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
20120087 PJK-KSI

Transporter Signature:

Truck #:
47

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 13 81

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925483

Original
Ticket# 1207553

Customer Name: [illegible]
Ticket Date: 08/13/2012
Payment Type: Credit Account
Manual Ticket:
Hauling Ticket:
Route:
State Manifest:
Manifest: 200067
Load Info:
PO:
Profile: [illegible]
Subsidiary: [illegible]

Carrier: [illegible]
Vehicle: 1
Container:
Origin:
Field:
Billing #: 9201244
Use Tax: N

Volume

	Time	Scale	Operator	Inbound		
In	08/13/2012 11:54:21	Scale	[illegible]		Gross	50560 lb
Out	08/13/2012 12:13:05		[illegible]		Tare	21340 lb
					Net	27220 lb
					Tons	13.61

Comments:

Delivered	Unit	Rate	UOM	Adjust	Total	Cancel	Origin
1	Special Waste over 15t	27.22	Tons				1920002-03

Total Tax
Total Ticket

Driver's Signature

403WM

120089

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
207

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 000088 PJK - ASC

Transporter Signature:

Truck #:
417

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.62 T

Authorized Signature

11/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925482

Twin Bridges
127 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207551

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120000
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking Corp
Vehicle# 17
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator
In	01/13/2012 15:47:53	Inside 1	csm
Out	01/13/2012 15:47:53		csm

Inbound

Gross	55940 lb
Tare	26600 lb
Net	29200 lb
Tons	14.60

Comments

Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Non	100	14.60	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

R. Knapp

403WM

120089

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] w/ ARCADIS on behalf of CSX

CSX Approval #:
20200089 PJK-ASC

Transporter Signature:
[signature]

Truck #:
43

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 14.92

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925475

Twin Bridges
129 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2976

Original
Ticket# 1207542

Customer Host UM MAIL CSX 606141N UM MAIL
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120009
Destination
PO
Profile [illegible]
Generator [illegible]

Carrier Young Trucking Comp
Vehicle# 3
Container
Driver
Check#
Billing L 0001344
Gen EPA ID

Volume

	Time	Scale	Operator	Gross	57200 lb
In	01/13/2012 15:32:42	Inside 1	csm	Tare	37440 lb
Out	01/13/2012 15:32:49		csm	Net	29040 lb
				Tons	14.52

Comments

Product	LDX	Qty	UOM	Date	Tax	Amount	Origin
Spreste Solid Ubm 100		14.52	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12SC90

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ Arcadis
Greg Shine on behalf of CSX

CSX Approval #:
20120090 PJK-1150

Transporter Signature:

Truck #:
Y12

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.45

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925481

[illegible]
[illegible]
[illegible]
[illegible]

Original
[illegible]

Customer Name [illegible]
Ticket Date 01/13/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120020
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141 CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking Corp
Vehicle# 12
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/13/2012 15:47:05	Inside 1	csm		Gross	61400 lb
Out	01/13/2012 15:47:05		csm		Tare	30100 lb
					Net	31300 lb
					Tons	15.65

Comments

Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
Sprnstn Solid Oth	100	15.65	Tons				MONROE CO

Total Tax
Total Ticket

Driver's Signature

403WM

6

120091

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00091 PJK-ASC

Transporter Signature:

Truck #:
1349

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.43

CD
Authorized Signature

1-16-13
Date (MM/DD/YY)

WASTE MANAGEMENT

1925553

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207620

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump	
Ticket Date	01/16/2012	Vehicle#	1304	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120091			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/16/2012 09:40:24	Inside 1	cee		Gross	62320 lb
Out	01/16/2012 09:52:11	Inside 1	cee		Tare	25860 lb
					Net	36460 lb
					Tons	16.23

Comments:

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth~	100	16.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120092

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00092 PJK ASC

Transporter Signature:

Steve Howell

Truck #:

1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.61

Authorized Signature

1.16.12

Date (MM/DD/YY)

ASTE MANAGEMENT

1925541

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207619

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120092
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 09:38:21	Inside 1	ces		Gross	61600 lb
Out	01/16/2012 09:38:21		ces		Tare	26300 lb
					Net	35280 lb
					Tons	17.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	17.64	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Steve Howell

403WM

120093

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS
[signature] on behalf of CSX

CSX Approval #:
2012 00093 PTK - ASC

Transporter Signature:
[signature]

Truck #:
1315

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.92

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925550

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207623

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120093
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

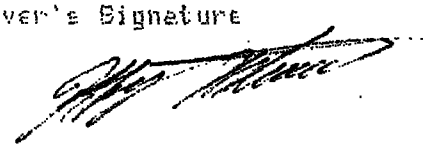
	Time	Scale	Operator	Inbound		
In	01/16/2012 09:49:17	Inside 1	ces		Gross	62420 lb
Out	01/16/2012 09:49:17		ces		Tare	26580 lb
					Net	35840 lb
					Tons	17.92

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.92	Tons				MONROE-53

Total Tax
Total Ticket

iver's Signature



NM

120694

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ Arcadis on behalf of CSX

CSX Approval #:

2012-00094 PJK-ASC

Transporter Signature:

Truck #:

1317

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.01

Authorized Signature

1-16-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925552

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207625

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120094
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

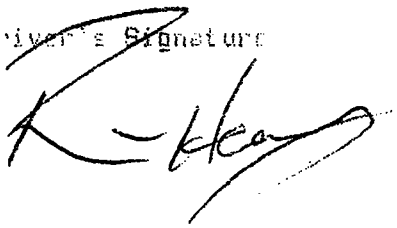
	Time	Scale	Operator	Inbound		
In	01/16/2012 09:50:42	Inside 1	ces		Gross	65800 lb
Out	01/16/2012 09:50:42		ces		Tare	25780 lb
					Net	40020 lb
					Tons	20.01

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.01	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



WM

120095

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ attached
[signature] on behalf of CSX

CSX Approval #:

2012 00095 PJK 7156

Transporter Signature:

[signature]

Truck #:

1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.87

[signature]
Authorized Signature

1.16.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925554

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207626

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120095
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 09:53:30	Inside 1	ces		Gross	63400 lb
Out	01/16/2012 09:53:30		ces		Tare	25660 lb
					Net	37740 lb
					Tons	18.87

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	18.87	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature

3WM

120096

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 0096 PTE #1

Transporter Signature:
Brian Richardson

Truck #:
A+ 1307

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.11

Authorized Signature

1/16/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925555

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207627

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120096
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1307
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 09:55:21	Inside 1	cee		Gross	67020 lb
Out	01/16/2012 09:55:21		cee		Tare	26800 lb
					Net	40220 lb
					Tons	20.11

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sewage Solid (Non-100		20.11	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Brian Rutenbeck

X3WM

120097

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ HAZCATS on behalf of CSX

CSX Approval #:
2012 00097 PTK - TSC.

Transporter Signature:
Paul Wright

Truck #:
1306

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.12

CS
Authorized Signature

1-11e-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925562

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1907030

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120097
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:12:19	Outside 1	ces		Gross	69180 lb
Out	01/16/2012 10:12:19		ces		Tare	26940 lb
					Net	42240 lb
					Tons	21.12

Comments

Product	LDA	Qty	UOM	Date	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.12	Tons				MONROE-53

Driver's Signature Dan Wright

Total Tax
Total Ticket

03WM

120098

Industrial Waste Disposal Manifest

Profile Number: 606414IN__

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ATRCAD IS on behalf of CSX

CSX Approval #:

2012 00098 PJK 1/5c

Transporter Signature:

Truck #:

1

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18 32

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925560

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207632

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120098
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:03:49	Inside 1	ces		Gross	64400 lb
Out	01/16/2012 10:03:49		ces		Tare	27960 lb
					Net	36440 lb
					Tons	18.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Okl- 100		18.22	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

120099

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00099 PJK ASC

Transporter Signature:

Truck #:
1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 1 x 20

Authorized Signature

Date (MM/DD/YY)
12-12-12

WASTE MANAGEMENT

1925563

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207637

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120099
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:14:57	Outside 1	ces		Gross	62700 lb
Out	01/16/2012 10:14:57		ces		Tare	26300 lb
					Net	36400 lb
					Tons	18.24

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.24	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

David Graham

03WM

12/0100

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
w/ RECEIPTS ENGINEER OF CSX

CSX Approval #:
20120100 RSK-ASL

Transporter Signature:
Justin Carter

Truck #:
1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.91

CD
Authorized Signature

12-12-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925564

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207638

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	01/16/2012	Vehicle#	1300
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120100		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:16:14	Outside 1	ces		Gross	63040 lb
Out	01/16/2012 10:16:14		ces		Tare	25220 lb
					Net	37820 lb
					Tons	18.91

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
* Spwaste Solid Oth-	100	18.91	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120101

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

25 T

Generator Signature:

[signature] Manager on Board on CSX

CSX Approval #:

2012 00101 [illegible]

Transporter Signature:

[signature]

Truck #:

631

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 0.33

[signature]
Authorized Signature

[illegible]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925579

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207641

Customer Name WM NATL CSX 6064i4IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120101
Destination
PO
Profile 6064i4IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:19:32	Outside 1	ces		Gross	62100 lb
Out	01/16/2012 10:38:23	Inside 1	ces		Tare	27520 lb
					Net	34660 lb
					Tons	17.33

Comments

Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
1 Spreable Soils Off	100	17.33	Tons				MONROE-03

Total Tax
Total Ticket

Driver's Signature

03WM

12012

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS on BEHALF of CSX

CSX Approval #:

2012 02102 PSC-ASI

Transporter Signature:

Jerry Hadley - Naylor Trk.

Truck #:

301

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 11.21

CD

Authorized Signature

12-11-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925571

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207645

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120102
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:26:15	Inside 1	ces		Gross	59380 lb
Out	01/16/2012 10:26:15		ces		Tare	26840 lb
					Net	32540 lb
					Tons	16.27

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	16.27	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

12/03/03

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ Releases on behalf of CSX

CSX Approval #:
20120023 PW-INC

Transporter Signature:

Truck #:
3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.12

Authorized Signature

Date (MM/DD/YY) 11-16-12

WASTE MANAGEMENT

1925575

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207649

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120103
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:30:30	Inside 1	cee		Gross	60820 lb
Out	01/16/2012 10:30:30		cee		Tare	27380 lb
					Net	33440 lb
					Tons	16.72

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		16.72	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

IWM

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ Accepts on Behalf of CSX

CSX Approval #:

Transporter Signature:

Truck #:

1305

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 9.30

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925569

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207644

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120102 4
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:24:01	Outside 1	ces		Gross	65600 lb
Out	01/16/2012 10:24:01		ces		Tare	27000 lb
					Net	38600 lb
					Tons	19.30

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.30	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12/05

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

12

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.82

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925591

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207664

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120105
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 12
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:58:40	Inside 1	csm		Gross	64580 lb
Out	01/16/2012 10:58:40		csm		Tare	30160 lb
					Net	34420 lb
					Tons	17.21

Comments

Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth	100	17.21	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12 of 96

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20

Generator Signature:
w/ Permission on behalf of CSX

CSX Approval #:
20120106 P.K.-CSX

Transporter Signature:
Dan K Taylor

Truck #:
65 T99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.34

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925586

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207659

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120106
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 000:944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:49:27	Inside 1	csm		Gross	67680 lb*
Out	01/16/2012 10:49:27		csm		Tare	27000 lb*
			* Manual Weight		Net	40680 lb
					Tons	20.34

7654

Comments: Replaces [illegible]
Had wrong county

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		20.34	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

4

12010

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] "Y" AUTHORIZED ON BEHALF OF CSX

CSX Approval #:
[illegible]

Transporter Signature:
[signature]

Truck #:
[illegible]

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: [illegible]

Authorized Signature
[signature]

Date (MM/DD/YY)
[illegible]

WASTE MANAGEMENT

1925588

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207661

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120107
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator
In	01/16/2012 10:50:58	Inside 1	csm
Out	01/16/2012 10:50:58		csm
			* Manual Weight

Inbound

Gross	65240 lb*
Tare	26020 lb*
Net	39220 lb
Tons	19.61

Comments Replaces 1207655
Had wrong county

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		19.61	Tons				MONROE-53

Total Tax
Total Ticket

river's Signature

103WM

1/20/08

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T.

Generator Signature:

CSX Approval #:

2012-0108 PJK-ASC

Transporter Signature:

Brad Porter

Truck #:

310 NAYLOR

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.10

Brad Porter

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925584

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207657

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120108
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:46:50	Inside 1	csm		Gross	62600 lb
Out	01/16/2012 10:46:56		csm		Tare	20400 lb
					Net	[illegible] lb
					Tons	[illegible]

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Sp waste Solid Odlr 100		10.10	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Brad Porter

03WM

120109

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

M ARCHAIS ON BEHALF OF CSX

CSX Approval #:

20120109 PSK-ARC

Transporter Signature:

Truck #:

305

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.64

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925587

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207660

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120109
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:50:21	Inside 1	csm		Gross	61020 lb
Out	01/16/2012 10:50:21		csm		Tare	26940 lb
					Net	34080 lb
					Tons	17.04

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.04	Tons				MONROE-53

Total Tax
Total Ticket

iver's Signature

3WM

12 0110

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] of Arcadis on behalf of CSX

CSX Approval #:
20120110 PJK-ISC

Transporter Signature:
Bob H.

Truck #:
309 NAYLOR

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.03

[signature]
Authorized Signature

[signature]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925602

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1807666

Customer Name: WM NATL CSX G06414IN WM NATL
Ticket Date: 01/16/2012
Payment Type: Credit Account
Manual Ticket#:
Hauling Ticket#:
Route:
State Waste Code:
Manifest: 120110
Destination:
PO:
Profile: 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator: 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: NAYLOR
Vehicle#: 309
Container:
Driver:
Check#:
Billing #: 0001944
Gen EPA ID:

Volume:

	Time	Scale	Operator	Inbound		
In	01/16/2012 11:03:14	Inside 1	csm		Gross	64400 lb
Out	01/16/2012 11:15:15	Inside 1	csm		Tare	26320 lb
					Net	38080 lb
					Tons	19.00

Comments:

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Special Solid Oth	100	19.00	Tons				MONROE-53

Bob H.
Driver's Signature

Total Tax
Total Ticket

103WM

2011

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] Manager of CSX

CSX Approval #:

20120911 PSK-MLC

Transporter Signature:

[signature]

Truck #:

312

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 16.25

[signature]

Authorized Signature

[signature]

Date (MM/DD/YY)

WASTE MANAGEMENT

1925592

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207665

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120111
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 312
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 10:59:41	Inside 1	csm		Gross	59000 lb
Out	01/16/2012 10:59:41		csm		Tare	26500 lb
					Net	32500 lb
					Tons	16.25

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12012.

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
250T

Generator Signature:
W/ ACCESS ON BEHALF OF CSX

CSX Approval #:

Transporter Signature:

Truck #:
41

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 255 C

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925598

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207671

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120112
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 41
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 11:07:45	Inside 1	csm		Gross	58920 lb
Out	01/16/2012 11:07:45		csm		Tare	27800 lb
					Net	31120 lb
					Tons	15.56

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.56	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

12013

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ Permission on Behalf of CSX

CSX Approval #:
20120013 PCB AS

Transporter Signature:

Truck #:
1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.36

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925631

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207709

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120113
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 12:42:40	Inside 1	csm		Gross	64100 lb
Out	01/16/2012 12:42:46		csm		Tare	26380 lb
					Net	37720 lb
					Tons	18.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.86	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature Steve Howell

403WM

12414

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

200 T

Generator Signature:

w/ ANCHORS ON REMAIN of CSX

CSX Approval #:

20,302.14 Post-Act

Transporter Signature:

Truck #:

1501

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 12414

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925632

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207710

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump		
Ticket Date	01/16/2012	Vehicle#	1304	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	120114				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	01/16/2012 12:43:25	Inside 1	csm		Gross	60740 lb
Out	01/16/2012 12:43:25		csm		Tare	25860 lb
					Net	34880 lb
					Tons	17.44

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	17.44	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12.0115

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS
D.J Bonus of CSX

CSX Approval #:

2012.00115 RK-46

Transporter Signature:

Truck #:

1315

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.53

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925641

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207719

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	01/16/2012	Vehicle#	1315
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120115		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound	Gross	64280 lb
In	01/16/2012 13:06:32	Inside 1	csm		Tare	26580 lb
Out	01/16/2012 13:06:32		csm		Net	37700 lb
					Tons	18.85

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.85	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12016

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120116 PJK-ASC

Transporter Signature:

[signature]

Truck #:

1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.47

[signature]

Authorized Signature

[signature]

Date (MM/DD/YY)

WASTE MANAGEMENT

1925643

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207721

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120116
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID.

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:08:12	Inside 1	csx		Gross	64600 lb
Out	01/16/2012 13:08:12		csx		Tare	25600 lb
					Net	39040 lb
					Ton	19.47

Comments

Product	LPF	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth	100	19.47	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

3/20/17

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] of Arcadis on behalf of CSX

CSX Approval #:

20120017

Transporter Signature:

[signature]

Truck #:

1307

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.72

[signature]
Authorized Signature

[signature]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925644

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207723

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120117
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1307
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:10:35	Inside 1	csm		Gross	60240 lb
Out	01/16/2012 13:10:35		csm		Tare	25800 lb
					Net	34440 lb
					Tons	19.72

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Specific Solid Othe	100	19.72	Tons				MONROE-CS

Total Tax
Total Ticket

Driver's Signature

403WM

6

12 of 18

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 CY

Generator Signature:

W/ AGENT ON BEHALF OF CSX

CSX Approval #:

2012-MW-PTL-AL

Transporter Signature:

Truck #:

130

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22 C.Y.

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925645

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207724

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	01/16/2012	Vehicle#	1317
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120118		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:11:15	Inside 1	csm		Gross	66720 lb
Out	01/16/2012 13:11:15		csm		Tare	25780 lb
					Net	40940 lb
					Tons	20.47

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	20.47	Tons				MONROE 52

Total Tax
Total Ticket

Driver's Signature

403WM

12-19

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2013
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-806-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] USI ARCHSOC ON BEHALF OF CSX

CSX Approval #:
20120319 POR-ALC

Transporter Signature:
[signature]

Truck #:
1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.39

[signature]
Authorized Signature

[signature]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925653

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207732

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120119
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:34:11	Inside 1	ces		Gross	71580 lb
Out	01/16/2012 13:34:11		ces		Tare	26940 lb
					Net	44640 lb
					Tons	22.32

Comments

Product	LDF%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	22.32	Tons				MONROE-53

Dan Wright

Total Tax
Total Ticket

Driver's Signature

403WM

12/9/20

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:

CSX Approval #:
2012 00120 RSK-ASK

Transporter Signature:

Truck #:
134

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.17

Authorized Signature

12-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925654

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207733

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120120
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:35:24	Inside 1	ces		Gross	65860 lb
Out	01/16/2012 13:35:24		ces		Tare	27520 lb
					Net	38340 lb
					Tons	19.17

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprasic Solid Obl	100	19.17	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12-5-12

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 0012 Portion

Transporter Signature:

Truck #:

1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.73

Authorized Signature

Date (MM/DD/YY) 12-6-12

WASTE MANAGEMENT

1925656

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207735

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120121
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:37:06	Inside 1	ces		Gross	63760 lb
Out	01/16/2012 13:37:06		ces		Tare	26300 lb
					Net	37460 lb
					Tons	18.73

Comments

	Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.73	Tons				MONROE CO

Total Tax
Total Ticket

Driver's Signature

David Coleman

403WM

12012

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
200

Generator Signature:
WJ HAULERS ON BEHALF OF CSX

CSX Approval #:
2012 0102 NT-IN

Transporter Signature:

Truck #:
1300

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20-25

Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925658

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207737

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120122
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:39:11	Inside 1	ces		Gross	65720 lb
Out	01/16/2012 13:39:11		ces		Tare	25220 lb
					Net	40500 lb
					Tons	20.25

Comments:

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Sweeple Solid Wa- 100		20.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120123

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20

Generator Signature:

[signature] of ARCADIS on behalf of CSX

CSX Approval #:

2012-00123 PSK-466

Transporter Signature:

[signature]

Truck #:

1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.69

CJ

Authorized Signature

10-16-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925664

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207742

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120123
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:52:10	Inside 1	ces		Gross	68300 lb
Out	01/16/2012 13:52:10		ces		Tare	27000 lb
					Net	41300 lb
					Tons	20.65

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid DOH	100	20.65	Tons				MONROE-CS

Total Tax
Total Ticket

Driver's Signature

403WM

120124

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
J ARCHER ON BEHALF OF CSX

CSX Approval #:
20120124 PJK-MSC

Transporter Signature:
[signature] - NAyler TCK.

Truck #:
301

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.25

[signature]
Authorized Signature

1/16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925660

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207739

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120124
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 301
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:46:20	Inside 1	ces		Gross	62340 lb
Out	01/16/2012 13:46:20		ces		Tare	25840 lb
					Net	36500 lb
					Tons	18.25

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	18.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012081125 RPM

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPF Number: 32-2

Amount: 18.76

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925665

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket 1207744

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120125
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:54:16	Inside 1	ces		Gross	64360 lb
Out	01/16/2012 13:54:16		ces		Tare	27960 lb
					Net	36400 lb
					Tons	18.20

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Dpwaste Solid Oth-	100	18.20	Tons				MONROE-02

Total Tax
Total Ticket

Driver's Signature

403WM

12 of 20

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

207

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120126 PJK-ASC

Transporter Signature:

Truck #:

3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20 Tons

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925661

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207740

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Huntley Excavating		
Ticket Date	01/16/2012	Vehicle#	3	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	120126				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:48:07	Inside 1	ces		Gross	67700 lb
Out	01/16/2012 13:48:07		ces		Tare	27380 lb
					Net	40320 lb
					Tons	20.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	20.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

12012

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
W/ APPROVAL ON BEHALF OF CSX

CSX Approval #:
20120927 BK-ASC

Transporter Signature:

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 14.53

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1925659

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207730

Customer Name WM NATL CSX 0064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120127
Destination
PO
Profile 0064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/16/2012 13:44:44	Inside 1	ces		Gross	55060 lb
Out	01/16/2012 13:44:43		ces		Tare	26020 lb
					Net	29040 lb
					Tons	14.52

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		14.52	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120128

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

S/ ARCADIS ON BEHALF OF CSXT

CSX Approval #:

20120128 PSK-ASC

Transporter Signature:

Dan L Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.31

Authorized Signature

1-16-13

Date (MM/DD/YY)

WASTE MANAGEMENT

1925667

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207746

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120128
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# 199
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	71620 lb
In	01/16/2012 13:50:44	Inside 1	ces		Tare	27000 lb
Out	01/16/2012 13:56:44		ces		Net	44620 lb
					Tons	22.31

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Spreable Solid Othr	100	22.31	Tons				MONROE-IN

Total Tax
Total Ticket

Driver's Signature

Daniel Taylor

403WM

120129

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
2012 00129 PSK-ASC

Transporter Signature:

Truck #:
305

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20 TONS

Authorized Signature

Date (MM/DD/YY) 10-11-12

WASTE MANAGEMENT

1925671

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207750

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120129
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:02:50	Inside 1	ces		Gross	68920 lb
Out	01/16/2012 14:02:58		ces		Tare	26940 lb
					Net	41980 lb
					Tons	20.99

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	20.99	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

WM

120130

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] U/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120030 RTM

Transporter Signature:
Brad Porter

Truck #:
310 MAXLOR

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.96

[signature]
Authorized Signature

[signature]
Date (MM/DD/YY)

WASTE MANAGEMENT

1925670

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207749

Customer Name MM NATL CSX 006414IN MM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120130
Destination
PO
Profile C06414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:01:20	Inside 1	cas		Gross	66350 lb
Out	01/16/2012 14:01:20		cas		Tare	26390 lb
					Net	39960 lb
					Tons	19.98

Comments

Product	LPY	Qty	UOM	Rate	Tax	Amount	Origin
Sp.Waste Solid Oth	100	19.98	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Brad Porter

403WM

120 131

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
200

Generator Signature:
[signature] by ARCADIS on behalf of CSX

CSX Approval #:
20120013 1 PSK-ARC

Transporter Signature:
[signature]

Truck #:
309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.75

[signature]
Authorized Signature

10-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925672

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207751

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120131
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier NAYLOR
Vehicle# 309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:05:26	Inside 1	ces		Gross	65780 lb
Out	01/16/2012 14:05:26		ces		Tare	26320 lb
					Net	39460 lb
					Tons	19.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	19.73	Tons				MONROE-53

Bobbi

Driver's Signature

Total Tax
Total Ticket

403WM

120132

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils. stone and debris

Est. Volume:
20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120132

Transporter Signature:

Truck #:
312

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 14.42

Authorized Signature

1-16-13
Date (MM/DD/YY)

WASTE MANAGEMENT

1925673

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207752

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	NAYLOR
Ticket Date	01/16/2012	Vehicle#	312
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120132		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:06:04	Inside 1	ces		Gross	56360 lb
Out	01/16/2012 14:06:04		ces		Tare	26520 lb
					Net	29840 lb
					Tons	14.92

Comments

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
Spcacte Solid Oth- 100		14.92	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

120133

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, **stone and debris**

Est. Volume:

2.0 T

Generator Signature:

[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120133 PSCC

Transporter Signature:

[signature]

Truck #:

41

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.31

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925680

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207700

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120133
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 41 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:27:02	Inside 1	Des		Gross	69420 lb
Out	01/16/2012 14:27:22		ces		Tare	29000 lb
					Net	40420 lb
					Tons	20.21

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Uth-	100	20.21	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120 134

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
2012 00134 PSC-7SC

Transporter Signature:

Truck #:
36

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.67

Authorized Signature

Date (MM/DD/YY) 1-16-13

WASTE MANAGEMENT

1925681

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207761

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120134
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 36
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:28:07	Inside 1	ces		Gross	65940 lb
Out	01/16/2012 14:28:07		ces		Tare	28600 lb
					Net	37340 lb
					Tons	18.67

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	18.67	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

103WM

120135

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
200 T

Generator Signature:
[signature] OF AGENT ON BEHALF OF CSX

CSX Approval #:
2012[illegible] PJK-AGT.

Transporter Signature:
[signature]

Truck #:
6

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 8.60

[signature]
Authorized Signature

12-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925684

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1925684

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120135
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 6
Container
Driver
Check#
Billing # 0021544
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	65500 lb
In	01/16/2012 14:35:11	Inside 1	cas		Tare	32000 lb
Out	01/16/2012 14:35:12		cas		Net	33500 lb
					Tons	16.75

Comments

Product	LD%	Qty	UOM	Rate	Tax	Inbound	Origin
1 Sp waste Solid Othr 100		16.60	Tons				MANUAL SB

Total Tax
Total Ticket

River's Signature

103WM

WASTE MANAGEMENT

12036

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
2012 00730 PJK-ARC

Transporter Signature:
[signature]

Truck #:
[illegible]

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: [illegible]

[signature]
Authorized Signature

10-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925691

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207768

Customer Name WM NATL CSX 0064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120136
Destination
PO
Profile C0641411N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 143-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier ERIDER
Vehicle# 66
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 14:50:17	Inbound 1	cee		Gross	66780 lb*
Out	01/16/2012 15:08:48	Inbound 1	ces		Tare	28980 lb
					Net	37800 lb
			* Manual Weight		Ton	18.90

Comments

Product	UOM	Qty	Unit	Rate	Tax	Account	Origin
1 Special Soils (WL	HR	18.90	Ton				MONROE CTY

Total Tax
Total Ticket

Driver's Signature

403WM

120137

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ACCESS ON BEHALF OF CSX

CSX Approval #:
ZQ200137 PSK-45C

Transporter Signature:

Truck #:
78

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.07

Authorized Signature

Date (MM/DD/YY) 11/6/12

WASTE MANAGEMENT

1925692

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207769

Customer Name WM MRTL CSX 6064141N WM MRTL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120137
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141 CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier CRIDER
Vehicle# 70
Container
Driver
Check#
Billing # 00001944
Gen EPA ID

Volume

	Time	Scale	Operator
In	01/16/2012 14:01:05	Inside 1	ces
Out	01/16/2012 15:05:22	Inside 1	ces

Inbound

Gross	71300 lb
Tare	32740 lb
Net	38560 lb
Tons	19.27

Comments

Product	LDP	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth	100	19.27	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature

403WM

120138

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

W/ ARMATS ENGINEER OF CSX

CSX Approval #:

20120138 PJK-ASC

Transporter Signature:

Truck #:

61

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 23.75

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925696

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 120774

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	CRIDER
Ticket Date	01/16/2012	Vehicle#	61
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120138		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 15:13:43	Inside 1	ces		Gross	74660 lb
Out	01/16/2012 15:27:38	Inside 1	ces		Tare	27180 lb
					Net	47500 lb
					Tons	23.78

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		23.78	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120139

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

WJ Allen's on Behalf of CSX

CSX Approval #:

20120039 ATV-ASL

Transporter Signature:

Truck #:

63

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 19.13

Authorized Signature

1.16.13
Date (MM/DD/YY)

WASTE MANAGEMENT

1925694

Original
Ticket: 1997775

Customer Name: [illegible]
Ticket Date: 01/16/2012
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route:
State Waste Code:
Manifest: 120139
Destination:
PO:
Profile: 0066414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator: 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: [illegible]
Vehicle#: 03
Trailer:
Driver:
Check#
Billing #: 00001544
Sub EPC ID:

Volume

	Time	Scale	Operator
In	01/16/2012 15:15:03	Inside 1	ces
Out	01/16/2012 15:24:59	Inside 1	ces

	Value
Gross	61640 lb
Tare	[illegible] lb
Net	[illegible] lb
Tons	17.12

Comments:

Product	LOA	Qty	UOM	Rate	Tax	Amount	Origin
Special Sale Oth- 100		17.12	Tons				MONROE-53

Label Pr.
Ref) Ticket

Driver's Signature:

403WM

120140

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120140 PJK-ARC

Transporter Signature:

[signature]

Truck #:

77

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 16.69

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925695

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207773

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120140
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier CRIDER
Vehicle# 77
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 15:12:40	Inside 1	ces		Gross	64060 lb
Out	01/16/2012 15:27:07	Inside 1	ces		Tare	30680 lb
					Net	33380 lb
					Tons	16.69

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Sprasle Solid Othr 100		16.69	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Larry Carter

403WM

6

120491

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] by Arcadis on behalf of CSX

CSX Approval #:

2012.00141 PJK-ASC

Transporter Signature:

[signature]

Truck #:

1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 151.09

[signature]
Authorized Signature

1·16·12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925703

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207703

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120141
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS--BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 15:44:49	Inside 1	ces		Gross	64560 lb
Out	01/16/2012 15:44:49		ces		Tare	26380 lb
			* Manual Weight		Net	38180 lb
					Tons	19.09

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.09	Tons				MONROE CO

Driver's Signature Steve Howell

Total Tax
Total Ticket

403WM

120142

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120141 PJK-ASC

Transporter Signature:

Truck #:

1304

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.33

CD

Authorized Signature

1-16-13

Date (MM/DD/YY)

WASTE MANAGEMENT

1925702

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207702

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120142
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1304
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	72520 lb
In	01/16/2012 15:44:29	Inside 1	ces		Tare	25860 lb
Out	01/16/2012 15:44:29		ces		Net	46660 lb
					Tons	23.33

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Sp Waste Solid Oth-	100	23.33	Tons				MONROE IN

Total Tax
Total Ticket

Driver's Signature

120 143

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] w/ Access on Behalf of CSX

CSX Approval #:

20120143 PTK-ALL

Transporter Signature:

[signature]

Truck #:

1315

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.19

CD

Authorized Signature

1.16.12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925709

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207709

Customer Name WM NATL CLY 606414IN WM NATI
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120143
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier WMIDS Dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 16:28:34	Inside 1	ces		Gross	64020 lb
Out	01/16/2012 16:28:34		ces		Tare	33780 lb
					Net	30240 lb
					Tons	15.12

Comments

Product	LDY	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		15.12	Tons				MUNROE-CSX

Total Tax
Total Ticket

Driver's Signature

403WM

126154

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

200T

Generator Signature:

[signature] W ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120144 PSK-ARC

Transporter Signature:

[signature]

Truck #:

1309

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 20.91

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

1925710

WASTE MANAGEMENT

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207790

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/10/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120144
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS--BLOOMINGTON

Carrier APlus- dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	[illegible] lb
In	01/10/2012 16:29:17	Inside 1	cas		Tar	25,440 lb
Out	01/10/2012 16:29:17		cas		Net	41,620 lb
					Tons	20.81

Comments

Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
Sweets Solid Odor 100		20.81	Tons				Canada-CSX

Total Tax
Total Amount

Driver's Signature

403WM

120145

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARLASS ON BEHALF OF CSX

CSX Approval #:

20120145 PSX-ASL

Transporter Signature:

Truck #: 1307

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.55

Authorized Signature

1.16.12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925711

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1907791

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120145
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1307
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 16:30:00	Inside 1	ces		Gross	73900 lb
Out	01/16/2012 16:30:00		ces		Tare	26800 lb
					Net	47100 lb
					Tons	23.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Special Solid Wa	100	23.55	Tons				MONROE-IN

Total Tax
Total Ticket

Driver's Signature

Brian Rosenbaugh

403WM

120146

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] ON BEHALF OF CSX

CSX Approval #:

20120140 RTE-AS

Transporter Signature:

[signature]

Truck #:

1386

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 27.87

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925712

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207792

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120146
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 17:14:11	Inside 1	ces		Gross	82680 lb
Out	01/16/2012 17:14:11		ces		Tare	22940 lb
					Net	[illegible] lb
					Tons	[illegible]

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	27.87	Tons				MONROE-02

Driver's Signature Dan Wright

Total Tax
Total Ticket

403WM

120/47

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

BY AGENT ON BEHALF OF CSX

CSX Approval #:

20150147 Rizzo

Transporter Signature:

Truck #:

131

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 25.81

CD

Authorized Signature

1-16-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1925713

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1207793

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120147
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 14J-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier (NPlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 17:14:50	Inside 1	ces		Gross	79140 lb
Out	01/16/2012 17:14:50		ces		Tare	27520 lb
					Net	51620 lb
					Tons	25.81

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Sweets Solid Oth-	100	25.81	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120148

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] 4 ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120148 RSK-ARC

Transporter Signature:
[signature]

Truck #:
3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 24.00

[signature]
Authorized Signature

1-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1925714

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1207794

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120148
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/16/2012 17:15:07	Inside 1	ces		Gross	75420 lb
Out	01/16/2012 17:16:07		ces		Tare	27300 lb
					Net	48040 lb
					Tons	24.02

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Sprwste Solid Oth	100	24.02	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature

403WM

12019

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ Allen on Rail Forces

CSX Approval #:

7312-5014-5 PS Number

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.37

Authorized Signature

Date (MM/DD/YY) 11/9/12

WASTE MANAGEMENT

1926090

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1926090

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	01/19/2012	Vehicle#	1313
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120149		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 09:25:05	Inside 1	csm		Gross	59120 lb
Out	01/19/2012 09:25:05		csm		Tare	25380 lb
					Net	33740 lb
					Tons	16.87

Comments

Product	LDF	Qty	UOM	Rate	Tax	Amount	Origin
1 Upwaste Solid Wbh-	100	16.87	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature Steve Newell

403WM

120150

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.14

CD

Authorized Signature

1.19.12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926094

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1208233

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120150
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 09:32:10	Inside 1	ces		Gross	65220 lb
Out	01/19/2012 09:32:10		ces		Tare	25940 lb
					Net	39280 lb
					Tons	19.14

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	19.14	Tons				MONROE-FC

Total Tax
Total Ticket

Driver's Signature

403WM

120151

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20.7

Generator Signature:

w/ ARMOR ON BEHALF OF CSX

CSX Approval #:

2012 00151 PSK-ASC

Transporter Signature:

Truck #:

A-12

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 19.04

CS

Authorized Signature

1.19.12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926095

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200234

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120151
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	65600 lb
In	01/19/2012 09:33:00	Inside 1	ces		Tare	27520 lb
Out	01/19/2012 09:33:00		ces		Net	38080 lb
					Tons	19.04

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		19.04	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120152

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

CSX Approval #:

2012-00152 BTK ASC

Transporter Signature:

Truck #:

A1 BC

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 T

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926097

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200230

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump	
Ticket Date	01/19/2012	Vehicle#	1307	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120152			
Destination				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/19/2012 09:35:31	Inside 1	ces		Gross	69520 lb
Out	01/19/2012 09:35:31		ces		Tare	26800 lb
					Net	42720 lb
					Tons	21.36

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Othr	100	21.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Brian Rademacher

403WM

120153

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

Generator Signature:

CSX Approval #:

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 23.99

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926098

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1208238

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120153
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 09:41:00	Inside 1	ccs		Gross	74980 lb
Out	01/19/2012 09:41:00		ccs		Tare	27000 lb
					Net	47980 lb
					Tons	23.99

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.99	Tons				MONTOE-SO

Total Tax
Total Ticket

Driver's Signature

403WM

120154

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] W/ AUTHORITY ON BEHALF OF CSX

CSX Approval #:

2012 00154 PTC-45C

Transporter Signature:

[signature]

Truck #:

SPE 02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.29

[signature]

Authorized Signature

[signature] 11/9/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926126

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1200271

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120154
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141--CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 11:26:52	Inside 1	csm		Gross	74760 lb
Out	01/19/2012 11:26:58		csm		Tare	28180 lb
					Net	46580 lb
					Tons	23.29

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Sweetie Solid Oth--	100	23.29	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120 155

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120155 PJK-ASC

Transporter Signature:

Truck #:

SPE 03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.44

Authorized Signature

11/9/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926129

Twin Bridges
125 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1206276

Customer Name: WM PROF CSX 6064141N WM NOTI
Ticket Date: 01/19/2012
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest: 120155
Destination
PO
Profile: 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generation: 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: Spreads
Vehicle#: 3
Container
Driver
Check
Billing #: 8001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	73600 lb
In	01/19/2012 11:37:53	Inside 1	csm		Tare	50760 lb
Out	01/19/2012 11:37:53		csm		Net	44840 lb
					Tons	22.44

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		22.44	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120156

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120156 RJTL-ASC

Transporter Signature:

Truck #:

A- 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 Cu Yds

Authorized Signature

Date (MM/DD/YY) 11/9/12

WASTE MANAGEMENT

1926154

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200301

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket
Route
State Waste Code
Manifest 120156
Destination
PO
Product 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Customer 141-CSX TRANS BLOOMINGTON CSX TRANS--BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

Time In [illegible] Scale [illegible] Operator [illegible]
Time Out [illegible]

Inbound

Gross	67740 lb
Tare	26380 lb
Net	41360 lb
Tons	20.68

Product	UOM	Price	Qty	Rate	Tax	Amount	Origin
1 Sprucedale Public Fee	TON	[illegible]	[illegible]	[illegible]			MONROE-SA

Driver's Signature Steve Howell

Total Tax
Total Due

403WM

120157

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADES ON BEHALF OF CSX

CSX Approval #:

20120157 PJK-ASC

Transporter Signature:

Truck #:

A-1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 26.89

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1926156

Twin Bridges
163 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2075

Original
Ticket # 1926156

Customer Name: WM MOTL COX CAC4143N (WM MOTL
Ticket Date: 01/19/2012
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest: 120157
Destination
PO
Profile: CAC4143N (EXCAVATED SOILS, STONE (NOT REQUIRED)
Generator: 141 CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier: APTUS dump
Vehicle#: 1206
Container
Driver
Driver
Billing #: 4501254
Exp Date:

Volume

	Time	Scale	Operator	Inbound	Gross	80720 lb
In	01/19/2012 13:03:52	Inside 1	cem		Tare	36540 lb
Out	01/19/2012 13:45:53		cem		Net	44180 lb
					Total	22.09

Comments

Product	LD%	Qty	UOM	Rate	Tax	Charge	Origin
1 Sweate Solid Odor 100		22.09	Tons			MEMPHIS TN	

Driver's Signature

Total Tax
Total Charge

403WM

120158

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120158 PSK-ASC

Transporter Signature:

[signature]

Truck #:

A-1 B11

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.26

[signature]

Authorized Signature

[signature]

Date (MM/DD/YY)

WASTE MANAGEMENT

1926157

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1926030

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120158
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141 CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 12:04:51	Inside 1	csm		Gross	76040 lb
Out	01/19/2012 13:04:51		csm		Tare	27520 lb
					Net	48520 lb
					Tons	24.26

Comments

Products	LDS	Qty	UOM	Rate	Tax	Amount	Origin
1 Dynamic Solid Oil	100	24.26	Tons				NORTH CS

Total Tax
Total Ticket

Driver's Signature

403WM

120159

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ AGENCY ON BEHALF OF CSX

CSX Approval #:

20120159 PJK-ASC

Transporter Signature:

Truck #:

A+ 1307

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.45

Authorized Signature

11/9/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926155

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1208302

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120159
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1307
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 13:02:15	Inside 1	csm		Gross	71100 lb
Out	01/19/2012 13:02:15		csm		Tare	26800 lb
					Net	44300 lb
					Tons	22.15

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprnsite Solid Dil.. 100		22.15	Tons				MONROE-TS

Total Tax
Total Ticket

Driver's Signature

403WM

120160

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

4/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120160 PJK-ASC

Transporter Signature:

Truck #:

A+ 1205

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.30

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926159

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200307

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120100
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus Dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 12:15:52	Inside 1	ces		Gross	68000 lb
Out	01/19/2012 13:11:08		ces		Tare	27000 lb
					Net	41000 lb
					Tons	20.50

Comments

Item	UPC	Qty	UOM	Rate	Tax	Amount	Origin
1 Inside Solid Waste	998	20.50	Tons				MONROE-52

Total Tax
Total Ticket

Driver's Signature

403WM

120161

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
2012-00161 PJK-156

Transporter Signature:

Truck #:
SPE 02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.26

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926186

Twin Bridges
123 Twin Bridges Road
Danville, IN 46122
Ph: 317 745 6078

Original
Ticket# 1926736

Customer Name: WB MFG. CO: 6864x2X UK (9.5)
Ticket Date: 01/31/2011
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest: 006614
Destination
PO
Profile: 6864x2X UNCONTAINED SOLID, STONE AND DEBRIS
Comments: PAY CUC LOADS BY ODOMETER PER TRUCK DESCRIPTION

Carrier: Spreads
Vehicle#: 1
Container
Driver
Check#
Billing #: 00001344
Gen. EPA ID

Volume

	Time	Scale	Operator	Net:	62700 lb
In:	01/31/2011 11:46:43	Inbound 1	ccs	Tare:	28100 lb
Out:	01/31/2011 11:50:41		ccs	Pre:	4550 lb
				Tax:	0.00

Materials

Material	UOM	Qty	Adj	Rate	Tax	Amount	Origin
1 Concrete Solid Oth- 100		31.35	Tons				MONTGOMERY

Driver's Signature

Total Tax
Total Ticket

403WM

120162

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
w/ ATRL MDIS
Terry Anne on behalf of CSX

CSX Approval #:
2012-0C1102 PJK-ASC

Transporter Signature:

Truck #:
SPE 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.13

Authorized Signature

Date (MM/DD/YY) 1.19.12

WASTE MANAGEMENT

1926189

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1926189

Customer Name	WM NATL CSX 6064141N WM NATL	Carrier	Speeds
Ticket Date	01/19/2012	Vehicle#	3
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120162		
Destination			
PO			
Profile	6064141N (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 14:46:56	Inside 1	ces		Gross	65060 lb
Out	01/19/2012 14:46:58		ces		Tare	28800 lb
					Net	36260 lb
					Tons	18.13

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	18.13	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120163

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120C1163 PJK-ASC

Transporter Signature:

Truck #:

A + 13B

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.91

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926199

[illegible]

Original
Ticket# 1280787

[illegible]
Ticket Date 01/29/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120163
Destination
PO
Profile CWCA141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CCY TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Volume

	Time	Scale	Operator	Inbound	Gross	66260 lb
In	01/29/2013 11:40:14	Inside 1	ccs		Tare	26280 lb
Out	01/29/2013 11:58:52		ccs		Net	39980 lb
					Tons	19.99

Comments

Product	UOM	Qty	Rate	Rate	Tax	Amount	Origin
1 Stone 1 1/2" Crush	TON	19.99	Fuel				MONROE-55

Driver's Signature Steve Hall

Total Tax
Total Ticket

403WM

120164

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:

2012001604 PTK-MSC

Transporter Signature:

Truck #:

A + 1307

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.32

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926200

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1208250

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120164
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1307
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	79440 lb
In	01/19/2012 16:23:24	Inside 1	ces		Tare	52080 lb
Out	01/19/2012 16:23:24		ces		Net	27360 lb
					Tons	13.68

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Non-	100	27.36	Tons				MONROE-IN

Total Tax
Total Ticket

Driver's Signature: Brian Rutledge

403WM

1201165

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Emily Drive w/ ARCADIS on behalf of CSX

CSX Approval #:

20120016S PTK - ASC

Transporter Signature:

Truck #:

A + B11

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.55

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926201

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-8570

Original
Ticket 1926201

Customer Name WM Mich Cl / GRAHAM WK Mgmt
Ticket Date 05/15/2012
Payment Type Credit Account
Manual Ticket
Hauling Ticket
Route
State Waste Code
Manifest 1201205
Destination
PO
Profile GRAHAM (EXEMPT) CLASS 1 STONE and DEBRIS
Generator 141 CLY TOWNE [illegible]

Carrier Driver Unit
Vehicle 1511
Trailer
Driver
Check
Billing D 0001524
Cal DPG 20

Volume

	Time	Scale	Operator	Inbound	Gross	76620 lb
In	05/15/2012 01:05:07	Scale 01			Tare	57120 lb
Out	05/15/2012 11:20:32		out		Net	19500 lb
					Tons	24.75

Comments

Product	UM	Qty	Job	Price	Fee	Material	Origin
Special Solid Was	TON	24.75					[illegible]

Driver's Signature

403WM

1201606

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012.001606 PLK-AS C

Transporter Signature:

Truck #:

A-1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 17.28

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926202

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket # 1926202

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 160166
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141--CSX TRANS BLOOMINGTON CSX TRANS BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Values

	Time	Scale	Operator	Inbound	Gross	[illegible] lb
In	01/19/2012 16:25:59	Inside 1	ces		Tare	[illegible] lb
Out	01/19/2012 16:25:59		ces		Net	[illegible] lb
					Tons	[illegible]

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 [illegible]		17.80	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature

103WM

120167

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ Arcadis on behalf of CSX

CSX Approval #:

2012-00169 PSY-ASC

Transporter Signature:

Truck #:

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.12

CD

Authorized Signature

1-19-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926203

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 120030

Customer Name WM NATL CSX 0064141N WM NATL
Ticket Date 01/19/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120167
Destination
PO
Profile 0064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Drive Over
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
San LPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/19/2012 16:20:47	Inside 1	ces		Gross	60400 lb
Out	01/19/2012 16:26:45		ces		Tare	26940 lb
					Net	33460 lb
					Tons	16.73

Comments

Product	ID#	Qty	UOM	Rate	Tax	Amount	Origin
1 Sp waste Solid Oth- 100		16.73	Tons				MONROE-IN

Total Tax
Total Ticket

Driver's Signature Dan Wyatt

403WM

120 1168

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012001168 PTF - ASC

Transporter Signature:

Truck #:

A- 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 21.16

Authorized Signature

1.10.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926267

Twin Bridges
175 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2076

Original
Ticket 1200431

Customer Name: [illegible] Carrier: [illegible]
Ticket Date: 01/20/2012 Vehicle: 1315 Volume
Payment Type: Credit Account Container:
Manual Ticket#: Driver:
Hauling Ticket#: Check#:
Scale: Billing L: 6201944
Scale Haste Code: Gen EPA ID:
Manifest: 120100
Destination:
PO:
Profile: [illegible] (EXCAVATED SOILS, STONE (NO BRICKS)
Generation: 100 CSX TRANS BLOOMINGTON CSX TRANSPORTATION

	Time	Scale	Operator	Tare	Gross	Net
In	01/20/2012 09:58:54	Inside 1	[illegible]			65700 lb
Out	01/20/2012 09:46:44		[illegible]			26280 lb
						39420 lb
						21.16

Comments:

Products	LDS	Qty	UOM	Note	Tax	Amount	Origin
1 Special Solid Waste	100	21.16	Tons				MORGAN IN

Driver's Signature: Steve Hand

[illegible]
[illegible] Title

403WM

120109

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Emily Dunn w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 CC 109 PTE ASC

Transporter Signature:

Brian Rebstaugh

Truck #:

A- 807

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.79

Authorized Signature

1-30-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926268

[illegible]

Original
Ticket# 1200432

Customer Name WM NATL CSX [illegible]
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120169
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Vehicle# 1307
Container
Driver
Check#
Billing # 0001544
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 09:41:00	Inside 1	ces		Gross	75500 lb
Out	01/20/2012 09:41:00		ces		Tare	[illegible] lb
					Net	43500 lb
					Tons	21.75

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Util	102	21.75	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature [signature]

403WM

120170

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS
[signature] on behalf of CSX

CSX Approval #:

20120170 PJK-ASC

Transporter Signature:

[signature]

Truck #:

SPE 02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.52

[signature]
Authorized Signature

1/20/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926262

Twin Bridges
172 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket 1200426

Customer Name MM NORTH COX (0641401N MM NORTH Carrier Spreads
Ticket Date 01/20/2012 Vehicle# 2 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0201944
State Waste Code Gen EPA ID
Manifest 100170
Destination
PO
Profile 0641401N (EXEMPT/FILL) SOIL, STONE AND BRICK)
Generator 141 COX TRAIL BLVD/JUPITER FL 33477-8(0641401N)

	Time	Scale	Operator	Inbound	Gross	65220 lb
In	01/20/2012 09:33:57	Inside 1	cat		Tare	22100 lb
Out	01/20/2012 09:33:57		cat		Net	37040 lb
					Tons	18.52

Comment:

Product	LD%	Qty	UOM	Note	Tax	Amount	Origin
1 Sprouts Soils (Ski-	100	18.52	Tons			$370.40	SA

Total Tax
Total Ticket

Driver's Signature

403WM

120171

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: w/ ARCADIS
Terry Jones on behalf of CSX

CSX Approval #:
20120017-1 PJK-ASC

Transporter Signature:

Truck #:
A-BCS

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

1.20.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926270

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Phn: 317-745-0077

Original
Ticket# 1200434

Customer Name WM NATL CSX 0064141N WM NATL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120171
Destination
PO
Profile 0064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier [illegible]
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 09:43:13	Inside 1	ces		Gross	64300 lb
Out	01/20/2012 09:43:13		ces		Tare	27000 lb
					Net	37300 lb
					Tons	18.65

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spreads Solid Wtr	100	18.65	Tons				MORGAN

Total Tax
Total Ticket

Driver's Signature

403WM

120172

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012.00172 PJK-ASC

Transporter Signature:

Truck #:

14 121

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18 89

Authorized Signature

Date (MM/DD/YY) 1.20.12

WASTE MANAGEMENT

1926273

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200430

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120172
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier ADlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 03:49:47	Inside 1	ces		Gross	65200 lb
Out	01/20/2012 09:49:47		ces		Tare	27520 lb
					Net	37680 lb
					Tons	18.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprnsls Solid Wstn	100	18.84	Tons				MONROE-ST

Total Tax
Total Ticket

Driver's Signature

403WM

120173

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:
20120073 PJK-ASC

Transporter Signature:

Truck #:
A 1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.23

CD
Authorized Signature

1-20-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926274

Twin Bridges
105 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-8070

Original
Ticket# 1200440

Customer Name WM MOTL CSX L0G4141N WM MOTL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120173
Destination
PO
Profile 140(141): UNAVAILABLE SOILS, STONE AND ROCKS
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Can Cat Other Comp
Validated 1300
Controlled
Seized
Checks
Billing # 0001944
Can CPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 09:52:00	Inside 1	ces		Gross	67400 lb
Out	01/20/2012 09:52:09		ces		Tare	46540 lb
					Net	20860 lb
					Tons	10.43

Comments

Product	ID#	Qty	UOM	Rate	Tax	Notes	Origin
1 Specify Solid Oth- 100		20.43	Tons				MONROE-53

Total Tax
Total Ticket

River's Signature

403WM

120174

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Emily Jane w/ TRCA01S on behalf of CSX

CSX Approval #:

201200174 RJK-ASC

Transporter Signature:

Truck #:

SPE 04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.70

CD

Authorized Signature

1-20-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926286

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1200452

Customer Name MM NOTL CSX G064141N UM NOTL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest# 120174
Destination
PO
Profile G064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speedy
Vehicle# 4
Container
Driver
Check#
Billing # 00001964
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 10:19:07	Inside 1	css		Gross	65510 lb
Out	01/20/2012 10:19:07		css		Tare	27510 lb
					Net	38000 lb
					Tons	19.00

Comments:

	Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
1	Spreads Solid Waste	100	19.00	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature

403WM

120175

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00175 PJK-ASC

Transporter Signature:

Truck #:

SPE 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.49

Authorized Signature

1-20-12

Date (MM/DD/YY)

WASTE MANAGEMENT

120175 1926287

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1200453

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120175
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/20/2012 10:19:41	Inside 1	ces		Gross	59780 lb
Out	01/20/2012 10:19:41		ces		Tare	28800 lb
					Net	30980 lb
					Tons	15.49

Comments

Product	LDV	Qty	UOM	Rate	Tax	Amount	Origin
Sywaste Solid Wst - 100		15.49	ton				MONROE-53

Driver's Signature

403WM

120176

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120017G PJK-ASC

Transporter Signature:

Truck #:

T 96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 16.13

Authorized Signature

10-26-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926278

Twin Bridges
125 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2876

Original
Ticket 1926278

Customer Name: WM NATL CSS (006414)N Mahomet
Ticket Date: 01/20/2012
Payment Type: Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest: 120176
Destination
PO
Profile: 006414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator: 141-CCY TRANS BLOOMINGTON CCY TRANS-BLOOMINGTON

Carrier: Taylor Trucking Pump
Vehicle: CCY
Container
Driver
Check#
Billing #: 0001944
Gen EPA ID:

Volume

| | Time | Scale | Operator | Tare | Gross 15
Net 15.
Units 15 |
|---|---|---|---|---|---|
| In | 01/20/2012 10:04:40 | Inside | CDS | | |
| Out | 01/20/2012 10:04:40 | | CDS | | |

Comments:

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Sp Waste Solid Oth- 100		16.15	Tons				

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

1926289

Twin Bridges
[illegible]
Danville, IN, 46122
Ph: 317-745-2076

Original
Ticket [illegible]

Customer Name [illegible]
Ticket Date [illegible]
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest [illegible]
Additional
PO
Profile [illegible]
Generator [illegible]

Carrier [illegible]
Vehicle# 1310
Container
Driver
Check#
Billing # [illegible]
Rec'd By [illegible]

Volume

	Tic	Scale	Spec Ser	Inbound		
In	01/28/2019 10:03:00	Inside 1	Cus		Gross	58900 lb
Out	01/28/2019 10:20:02		Cus		Tare	32300 lb
					Net	26600 lb
					Tons	13.30

Comments

Product	UOM	Qty	USD	Sale	Tax	Amount	Origin
1	Special Solid Othr 100	Total Tons					[illegible]

Total Tax
Total Ticket

Driver's Signature

403WM

120177

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00177 PJK-ASC

Transporter Signature:

Truck #:
A + 1310

Section C — **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.33

CD
Authorized Signature

1-20-12
Date (MM/DD/YY)

120178

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00178 PJK ASC

Transporter Signature:

Truck #:
T 99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill
OPP Number: 32-2
Amount: 17.82

Authorized Signature

Date (MM/DD/YY)
1/20/12

WASTE MANAGEMENT

1926332

[illegible]
[illegible] Bridge Road
[illegible], IN, [illegible]
[illegible]

Original
Ticket# 1926332

[illegible] Type: [illegible] Dump
Ticket Date: [illegible]
Payment Type: [illegible]
Manual Ticket#
Hauling Ticket#
Route
State Waste Code:
Manifest: 120173
Description
PO:
Profile: 796416(D, (EXCAVATED SOILS), STONE AND DEBRIS)
Generator: 141-000 [illegible] BLOOMINGTON CSX YARDS-BLOOMINGTON

	Time	Scale	Operator	Inbound	Gross	28640 lb
In	01/20/2012 12:02:09	Inside 1	cas		Tare	17020 lb
Out	01/20/2012 12:27:50		cas		Net	11620 lb
					Tons	5.81

Comments:

Product	LO#	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Othr 100		5.82	Tons				MONROE-IN

Total Tax
Total Ticket

Driver Signature: Dan Tarr

403WM

120179

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ RECADIS on behalf of CSX

CSX Approval #:
20120179 PJK-ASC

Transporter Signature:

Truck #:
C 61

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.49

Authorized Signature

Date (MM/DD/YY)
1/26/12

WASTE MANAGEMENT

1926342

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2379

Original
Ticket# 1926342

Customer Name UM NORTH [illegible] UM NORTH
Ticket Date 01/20/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120179
PO
Profile 663413IN (EXCAVATED SOIL, STONE AND DEBRIS)
Generator [illegible]

Carrier CRIDER
Vehicle# 61
Container
Driver
Check#
Billing # 4001944
Non RCRA ID

Volume

	Time	Scale	Scale#	Inbound	Gross	62080 lb
In	01/20/2013 [illegible]	Weight 1	USA		Tare	27100 lb
Out	01/20/2013 13:03:09		USA		Net	34980 lb
					Tons	17.49

Comments

Products	LOI%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprmssbl Solid Stn- 100		17.49	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Dave Roberts

403WM

120180

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ARA0015 on behalf of CSX

CSX Approval #:

20120180 PJK-ASL

Transporter Signature:

Truck #:

C 77

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 20.71

Authorized Signature

1/20/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926343

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2073

Original
Ticket# 1926343

Customer Name: WM NOTL COX SOLUTION OF CNTL
Ticket Date: 01/22/2013
Payment Type: Credit Account
Manual Ticket#:
Hauling Ticket#:
Route:
Scale Master Code:
Manifest: 120130
Origination:
PO:
Profile: S004141N (EXCAVATED SOILS, STONE AND CONCRETE
Generator: [illegible] COX [illegible]

Carrier: Other
Validated: Y
Container:
Driver:
Check#:
Billing #: 0001944
Gen EPA ID:

Volume

	File	Scale	Operator	Odometer	Gross	33100 lb
In	01/22/2013 [illegible]	[illegible]	[illegible]		Tare	32180 lb
Out	01/22/2013 13:03:01		cea		Net	919 20 lb
					Tons	20.71

Comments

Product	LOM	Qty	UOM	Price	Tax	Status	Origin
1 Sp Waste Solid Othr 100		20.71	Tons				NORTH-ST

Total Tax
Total Ticket

Driver Signature

Mary Carter

403WM

120181

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS
Tony Dunn on behalf of CSX

CSX Approval #:
20120018 1 PJK-ASC

Transporter Signature:
Don Sibert

Truck #:
C 78

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.38

Authorized Signature

Date (MM/DD/YY) 11/20/12

WASTE MANAGEMENT

1926344

Erin Bridges
[illegible] Dwight Road
Danville, IL 61832
Ph: 217-443-2077

Original
Ticket# [illegible]

Customer Name [illegible]
Ticket Date 01/30/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120191
Generation
PO
Profile 030613 (EXCAVATED SOILS, STONE AND DEBRIS)
Generator [illegible]

Truck [illegible]
In [illegible]
Out 01/30/2012 13:35:11

Scale [illegible]
Scale [illegible]

Inbound

Gross 71600 lb
Tare 33040 lb
Net 38560 lb
Tons 19.28

Comments

Material	UOM	Qty	Unit	Date	Tax	Amount	Origin
[illegible]	[illegible]	[illegible]	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature

403WM

120182

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Tracy Duke w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00182 PJK - ASC

Transporter Signature:

Truck #:
T 91

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 19.69

Authorized Signature

Date (MM/DD/YY) 11/30/12

WASTE MANAGEMENT

1926349

Profile: 5254(10) (EXCAVATED SOILS, STONE AND DEBRIS)
Ground Floor: 111 CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound	Gross	lbs
In	01/23/2012 12:13:07	Inside 1	csm		Tare	lbs
Out	01/23/2012 12:13:07		csm		Net	27120 lb
					Tons	13.56

Comments:

Product	Lot #	Qty	UOM	Rate	Tax	Amount	Origin
1 Upwaste Solid Oth - 100		13.56	Tons				ATHLETIC FI

Total Tax
Total Ticket

Driver Signature

403WM

120183

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ TRCATDIS on behalf of CSX

CSX Approval #:
2012 00183 PJK-ASC

Transporter Signature:

Truck #:
SPE 02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 757

Authorized Signature

1-20-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926365

Original
Ticket# 1200535

Ticket Date 01/20/2012
Payment Typ
Manual Ticket#
Hauling Ticket#
Route
Waste Mate
Manifest
Co ation
PO
Profile [illegible]
Generator [illegible]

Volume

	Time	Scale	Operator	Gross	53320 lb
In	01/20/2012 13:11:02	Inbnd. 1	[illegible]	Tare	[illegible]
Out	01/20/2012 13:51:52		[illegible]	Net	[illegible]
				Tons	17.67

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Sprinkle Solid Othr	100	17.67	Tons				[illegible]

Total Tax
Total Ticket

Dri e Signature

403WM

120184

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS
Craig Jones on behalf of CSX

CSX Approval #:
20120018-4 PJK-ASC

Transporter Signature:
Steve Howell

Truck #:
A + B13

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.98

Authorized Signature

Date (MM/DD/YY) 11/20/12

WASTE MANAGEMENT

1926359

Original
Ticket# 1000329

Payment Type
Manual Ticket#
Hauling Ticket#
Route
Manifest 133104
Purchase Order
Reg
Profile 305414IN (EXCAVATED SOILS, STONE AND GRAVELS)
Generator

	Time	Scale	Operator	Gross	32440 lb
In	01/30/2012 13:32:31	Inside 1	esa	Tare	20020 lb
Out	01/30/2012 13:35:34		esa	Net	37060 lb
				Tons	17.53

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Special Sale (25% - 100		17.53	Tons				60030E-03

Driver's Signature

Customer
Total Tickets

403WM

120185

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00185 PJK ASC

Transporter Signature:

Truck #:

A-1311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.30

Authorized Signature

Date (MM/DD/YY) 1-20-12

WASTE MANAGEMENT

1926360

Original

Comments

Product	UOM	Qty	UOM	Price	Tax	Amount	Origin

Total Tax

Driver Signature

403WM

120186

Industrial Waste Disposal Manifest

Profile Number: 506414IN_

Expiration Date:_12/02/2012_____

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ARCADIS
Emily Amick on behalf of CSX

CSX Approval #:

20120186 PJK-ASC

Transporter Signature:

Brian Redenbaugh

Truck #:

A+ 1307

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

CD

Authorized Signature

1-20-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926361

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# [illegible]

Customer Name WM MATL CSX 60811411N WM MATL Carrier Atlas Comp
Ticket Date 01/20/2012 Vehicle# 1127 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 160186
Destination
PO
Profile [illegible]IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator [illegible]

	Time	Scale	Operator	Inbound	Gross	[illegible] lb
In	[illegible]	Inside 1	[illegible]		Tare	[illegible] lb
Out	01/20/2012 17:11:09		[illegible]		Net	[illegible] lb
					Tons	[illegible]

Comments

Product	UOM	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprwaste Solid Wh - 100		19.70	Tons				MDR000-33

Total Tax
Total Ticket

Driver Signature: Brian Rodenkamp

403WM

120187

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

20120097 PJK ASC

Transporter Signature:

Truck #:

A # 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.00

CS

Authorized Signature

10-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926363

Original
Ticket# 1926363

Manual Ticket#
Hauling Ticket#
Route
Blds Waste Cat
Manifest 120137
Generation
PO
Profile 6464-EIKEN EXCAVATED SOILS, STONE AND GRAVEL
Customer 7411-USF FARNS BLOOMINGTON CSX FARNS-BLOOMINGTON

	Time	Scale	Operator	Inbound	Gross	Shrink lb
In	01/30/2013 13:36:10	Inside 1	cas		Tare	Shrink %:
Out	01/30/2013 13:46:19		cas		Net	Shrink $:
					Fuel	% MC

Comments

	Product	LDX	Qty	UOM	Date	Tax	Amount	Origin
1	Spwaste Solid Oth - 100		10.05	Tons				MENARD-ED

Total Tax
Total Ticket

Driver's Signature

403WM

120188

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Street Address:
240 Country Club Drive

City:
Bloomington

Technical Contact:

Paul Kurzanski

County:
Monroe

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: w/ ARCADIS on behalf of CSX

CSX Approval #:

20120088 PJK-ASC

Transporter Signature:

Truck #:

At 1315

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 14.41

CD
Authorized Signature

1-20-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926364

Twin Bridges
163 Twin Bridges Road
Danville, CA, 94526
Ph: 217-719-2970

Original
Ticket# 1208534

Customer Acct. PH NO.: 298 SOCIETY PH PROFL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130108
De ription
PO
Profile 555111IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 111-037 PHONE BLOOMINGTON COX PHONE-BLOOMINGTON

Carrier Other Deep
Material 1113
Container
Driver
Check#
Billing # 0001344
Pre-Opt ID

Volume

	Date	Operator	Inbound	Gross	23600 lb
In	01/20/2012 12:30:57	Inside 1	cee	Tare	11800 lb
Out	01/20/2012 13:30:27		cee	Net	23600 lb
				Tons	11.81

Comments

Product	LB%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprasta Solid Waste 130		11.81	Tons				MCINROE-33

Total Tax
Total Ticket

Driver's Signature

403WM

120189

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS
Eric Jones on behalf of CSX

CSX Approval #:
2012 00189 PJK - ASC

Transporter Signature:

Truck #:
A - 1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.89

CD
Authorized Signature

1-20-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926369

Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 129183
Ge nation
PO
Profile 00501IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-0034 TRANS BLOOMINGTON CSA TRANS-BLOOMINGTON

Vehicle# 1366
Container
Driver
Check#
Billing # 3401341
Cus PPI ID

Values

	Time	Scale	Operator	Inbound		
In	01/20/2012 14:01:15	Inside 1	cas		Gross	33720 lb
Out	01/20/2012 14:01:15		cas		Tare	33720 lb
					Net	33780 lb
					Tons	16.89

Comments

Product	LOM	Qty	UOM	Rate	Tax	Amount	Origin
1 Sowaste Solid Oth- 100		16.89	Tons				MCIMSL-53

Total Tax
Total Ticket

Dri 's Signature

403WM

120190

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] w/ Appendix on behalf of CSX

CSX Approval #:
20120190 RTK-ASC

Transporter Signature:
[signature]

Truck #:
A + 1304

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.18

[signature]
Authorized Signature

[signature] 6-20-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1926372

Original
Ticket# 1902543

Volume

Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120100
Profile 300611WM CONTAMINATED SOILS, STONE AND DEBRIS
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Gross	51,000 lb
In	01/20/20	Inside 1	tes	Tare	39,020 lb
Out	01/20/20	WeighCM	cas	Net	11,980 lb
				Tons	5.99

Comments

Product	LOT	Qty	UOM	Code	Tax	Amount	Origin
1 Contaminated Soils (Oil) - 100		10.00	Tons				NON-OOS-53

Driver's Signature

Rewritten

403WM

120191

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

202 00191 PTK ASC

Transporter Signature:

Truck #:

A+ 800

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.5 ?

Authorized Signature

1-20-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926373

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2873

Original
Ticket# 1208542

Customer Name WM NATL CSX 60541AIN WM NATL
Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130191
Destination
PO
Profile 60541AIN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator [illegible]

Carrier APlus dump
Vehicle# 1200
Container
Driver
Check#
Billing # 00019444
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	33360 lb
In	01/20/2012 14:10:08	Inside 1	[illegible]		Tare	25820 lb
Out	01/20/2012 14:19:05		[illegible]		Net	7540 lb
					Tons	18.57

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprayable Solid Ohio 100		18.57	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120192

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS
Eric Shue on behalf of CSX

CSX Approval #:

20120092 PJK - ASC

Transporter Signature:

Truck #:

A1 1316

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.73

CD

Authorized Signature

1.20.12

Date (MM/DD/YY)

WASTE MANAGEMENT

1926374

Original
Ticket Updated

Ticket Date 01/20/2012
Payment Type Credit Account
Manual Ticket
Hauling Ticket
Route
State Waste Code
Manifest 1200135
Generation
PO
Profile EMISSION CONTAMINATED SOILS, STONE AND DEBRIS
Generation 1st CSX Parcel BLOOMINGTON CSX TOANS-BLOOMINGTON

	Time	Scale	Operator	Tare	14,560 lb
In	01/20/2012 14:08:42	Inside 1	sa	Gar	21,340 lb
Out	01/20/2012 14:29:13		sas	Net	6,780 lb
				Tons	3.39

Comments

Product	LO%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Wth - 100		17.73	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

403WM

120193

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS on behalf of CSX

CSX Approval #:
2012C0193 PJK-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 Y-

Authorized Signature

Date (MM/DD/YY) 1-30-12

WASTE MANAGEMENT

1927312

Original
Ticket # 1209362

Customer Name BM Hauling Co
Ticket Date 01/30/2012
Payment Type Credit Account
Manual Ticket #
Hauling Ticket #
Comb
State Manif. Code
Manifest 130193
Origination
Profile 5x54(4)M (EXCAVATION TOOLS, STONE AND DEBRIS)
Generator A1-CSX TRANS BLOOMINGTON CSX FROM [illegible]

	Time	Scale	Operator	Inbound	Gross	79920 lb
In	01/30/2012 10:40:04	Inside	csx		Tare	37120 lb
Out	01/30/2012 10:49:04		csx		Net	42800 lb
						21.40 T

Customer

Product	Loc	Qty	UOM	Rate	Tax	Amount	Origin
1 Operation Solid Waste		40.00	Tons				MONROE-33

Driver Name
Driver Signature

403WM

120194

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ AR ONDIS on behalf of CSX

CSX Approval #:

20120194 PJK Misc.

Transporter Signature:

Truck #:

SPE-04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 32.32

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927313

Customer Name: [illegible]
Ticket Date: 01/30/2012
Payment Type: Credit Account
Manual Ticket#:
Hauling Ticket#:
Route:
State Manifest Code:
Manifest: 130104
Generation:
PO:
Profile: 600416[illegible] (RECYCLED SOILS, STONE AND DEBRIS)
Generator: [illegible]

	Time	Scale	Operator	Inbound	Gross	[illegible] lb
In	01/30/2012 10:41:00	Inside 1	cas		Tare	[illegible] lb
Out	01/30/2012 10:41:00		cas		Net	[illegible] lb
					Tons	[illegible]

Comments:

	Products	LOX	Qty	UOM	Rate	Tax	Amount	Origin
1	Sewage Solid Chlor 100		22.32	Tons				WORKING-SD

Total Tax:
Total Ticket:

Driver Signature:

403WM

120195

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Tony Drue w/ ARCADIS on behalf of CSX

CSX Approval #:

2012 00195 PJL 45C

Transporter Signature:

Truck #:

SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 T

CD

Authorized Signature

1-30-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927321

Trio Bridges
203 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2978

Original
Ticket# 1927321

Customer Name WM NATL CSX CONTRACT DEPT NAIL Carrier Spreads
Ticket Date 01/30/2012 Vehicle# 3 Voided
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check
Route Billing # 0001344
State Waste Code Ref. PO #
Manifest 120109
Generator
PO
Profile 402414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141 CSX TRANS BLOOMINGTON CSX 53003-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	01/30/2012 12:36:37	Inside 1	cas		Gross	42120 lb
Out	01/30/2012 12:36:53		cas		Tare	21060 lb
					Net	19320 lb
					Fee	22.12

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.12	Fee				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120196

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS on behalf of CSX

CSX Approval #:

120196 PJK - ASC

Transporter Signature:

Stanger - Jeff Bennington

Truck #:

2053

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927324

Original

Customer Name: WM MID-[illegible]

Ticket Date: 01/20/2012

Payment Type: Credit Account

Manual Ticket #

Hauling Ticket #

Truck

Driver Name/ID:

Manifest: 135035

Job Description

PO:

Profile: 5054-ATM-[illegible]

Site Use: [illegible]

	Scale	Operator	Inbound	Gross	73480 lb
[illegible]	Inside 1	wde		Tare	27660 lb
[illegible]	Inside 1	wde		Net	45820 lb
				Pass	22.91

Comments:

Product	Unit	Qty	UOM	Rate	Tax	Amount	Origin
[illegible]		22.91	Tons				MONROE-33

Total Tax
Total Ticket

Driver's Signature: Jim Bernhardt

403WM

120197

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

Emily Jones w/ ARCADIS on behalf of CSX

CSX Approval #:

20120097 PJK - ASC.

Transporter Signature:

Truck #:

SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.58

Authorized Signature

1-30-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927323

	Time	Scale	Operator	Gross	[illegible] lb
In	01/26/2010 11:37:00	[illegible]	[illegible]	Tare	[illegible] lb
Out	01/30/2010 11:25:00		[illegible]	Net	[illegible] lb

Products	LOX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprague Solid Other	100	21.93	Tons				[illegible]

Total Tax
Total Ticket

Driver's Signature

403WM

120198

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
Emily Dove w/ ARCADIS on behalf of CSX

CSX Approval #:
2012 00 198 PM: ASC

Transporter Signature:
Kevin Rush

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20 TC

QA

Authorized Signature

1-30-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927374

403WM

120199

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ARCADIS
Emily Drew on behalf of CSX

CSX Approval #:
2012 00199 PJK - ASC

Transporter Signature:

Truck #:
SRE-04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.81

Authorized Signature

1-30-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927373

Original

Ticket# 1927373

Date In: 01/30/2012

Payment Type: Credit Account

Manual Ticket#

Hauler

Profile

Gross: 71100 lb

Tare: 44000 lb

Net: 27100 lb

27.10 Tons

Comments

Product	LOS	Qty	UOM	Price	Tax	Amount	Origin
1 Sycamore 3 III Jan - Mar		27.10	Tons				SONOMA CO

Total Tax

Total Ticket

Driver Signature

403WM

120200

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
w/ ACADIS
on behalf of CSX

CSX Approval #:
20120020 PJK-MSC

Transporter Signature:

Truck #:
SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.03

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927387

Profile

	Time			Amount		
In	01/30/2018 11:11:02	Details			Gross	72860 lb
Out	01/30/2018 11:12:52				Tare	29000 lb
						43860 lb
					Fees	$1.50

Comments

Product	UOM	Qty	UOM	Rate	Tax	Amount	Origin
1 Ogwaste Solid 005 - 999		43.86	Tons				MONROE-33

Total Tax
Total Ticket

Driver Signature

403WM

#120201

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Ton

Generator Signature:

w/ ARIADPS ON BEHALF OF CSX

CSX Approval #:

20120201 PSK-Asc

Transporter Signature:

Truck #:

2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.73

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927391

Payment Type: Credit Account
Manual Ticket#:
Hauling Ticket#:
Route:
State Waste Code:
Manifest: 120161
Out: Inbound
Qty:
Profile: 885161N (GELPARTICLES SOLID, STORE UNDER SHADE)

Time	Scale	Operator	Inbound	Gross	Tare to
In: 01/30/2012 14:32:03	Scale 1	cas			
Out: 01/30/2012 14:32:23		cas		Net	
				Tare	

Comments:

Product	Lbs	Qty	UOM	Rate	Tax	Percent	Origin
1 Grease Solid Drum 100		32.73	Tons				MCNEES-03

Total Tax:
Total Ticket:

Driver's Signature: Jim Beuchemin

403WM

120202

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 Tons

Generator Signature: w/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:
20120202

Transporter Signature:

Truck #:
SPE-0201

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.01

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927386

403WM

120203

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARLADES ON BEHALF OF CSX

CSX Approval #:
2012000203 PSC-ASC

Transporter Signature:

Truck #:
SPE-04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.02

Authorized Signature

1-30-12
Date (MM/DD/YY)

WASTE MANAGEMENT

4

1927414

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209718

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/30/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120203
Dr ination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/30/2012 16:33:03	Inside 1	ces		Gross	69600 lb
Out	01/30/2012 16:33:03		ces		Tare	27560 lb
					Net	42040 lb
					Tons	21.02

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.02	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120204

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012000204 PSX-ASC

Transporter Signature:

Truck #:

SPE-02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 15.64

Authorized Signature

1-30-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927415

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209719

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/30/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120204
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/30/2012 16:39:02	Inside 1	ces		Gross	59460 lb
Out	01/30/2012 16:39:02		ces		Tare	28180 lb
					Net	31280 lb
					Tons	15.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.64	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature

403WM

120205

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120205 RJK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.40

CD

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927482

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209791

Customer Name WM NATL CSX 606414IN WM NATL Carrier Speads
Ticket Date 01/31/2012 Vehicle# 4 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120205
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	01/31/2012 09:29:06	Inside 1	ces		Gross	66360 lb
Out	01/31/2012 09:29:06		ces		Tare	27560 lb
					Net	38800 lb
					Tons	19.40

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.40	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120206

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 Ton

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120206 PSC-ASC

Transporter Signature:
Dan K Taylor

Truck #:
T-99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount:

Authorized Signature

1.31.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927490

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209800

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Taylor Trucking Dump	
Ticket Date	01/31/2012	Vehicle#	t99	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120206			
De ıation				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound		
In	01/31/2012 09:40:51	Inside 1	ces		Gross	64220 lb
Out	01/31/2012 09:40:51		ces		Tare	27000 lb
					Net	37220 lb
					Tons	18.61

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.61	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature Dan N Taylor

403WM

120207

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ BRADDIS ON BEHALF OF CSX

CSX Approval #:

201200207 PTC - ASC

Transporter Signature:

Truck #:

SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.95

Authorized Signature

12-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927488

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209798

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120207
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 09:37:13	Inside 1	ces		Gross	59260 lb
Out	01/31/2012 09:37:13		ces		Tare	28800 lb
					Net	30460 lb
					Tons	15.23

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.23	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature

403WM

#120208

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012000208 PSX-ARC

Transporter Signature:

Truck #:

2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.54

CD

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927491

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209802

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120208
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 09:43:51	Inside 1	ces		Gross	60540 lb
Out	01/31/2012 09:43:51		ces		Tare	27460 lb
					Net	33080 lb
					Tons	16.54

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.54	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120209

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120021 09 PJK-ASC

Transporter Signature:

Truck #:
SPE-01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.05

CD
Authorized Signature

1-31-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927493

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209804

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120209
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 09:47:49	Inside 1	ces		Gross	68240 lb
Out	01/31/2012 09:47:49		ces		Tare	28140 lb
					Net	40100 lb
					Tons	20.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.05	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

#120210

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ AECOMM ON BEHALF OF CSX

CSX Approval #:

2012000210 PSC-ASC

Transporter Signature:

Truck #:

1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.01

CD

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927503

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209817

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120210
De ıation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 10:11:48	Inside 1	ces		Gross	63680 lb
Out	01/31/2012 10:11:48		ces		Tare	25660 lb
					Net	38020 lb
					Tons	19.01

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.01	Tons				MONROE-53

Total Tax
Total Ticket

Driv 's Signature

403WM

#120211

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS
[signature] ON BEHALF OF CSX

CSX Approval #:
2012002911 PSK-ASC

Transporter Signature:
[signature]

Truck #:
A2 1311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.80

[signature]
Authorized Signature

1-31-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927505

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209819

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120211
De: ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 10:13:05	Inside 1	ces		Gross	65140 lb
Out	01/31/2012 10:13:05		ces		Tare	27520 lb
					Net	37620 lb
					Tons	18.81

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.81	Tons				MONROE-53

Total Tax
Total Ticket

Dri. .'s Signature

403WM

#120212

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ ARIADES ON BEHALF OF CSX

CSX Approval #:
20120212 PTK-ASC

Transporter Signature:

Truck #:
A+ 1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: [illegible] 17.00

CD
Authorized Signature

1-31-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927504

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209818

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120212
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 10:12:27	Inside 1	ces		Gross	60300 lb
Out	01/31/2012 10:12:27		ces		Tare	26300 lb
					Net	34000 lb
					Tons	17.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.00	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

#120213

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200213 PSC-ASC

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.38

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927506

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209821

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120213
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 10:16:02	Inside 1	ces		Gross	62780 lb
Out	01/31/2012 10:16:02		ces		Tare	26020 lb
					Net	36760 lb
					Tons	18.38

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.38	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

120214

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 00214 PJK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.23

Authorized Signature

11/30/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927543

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209863

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120214
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 12:18:18	Inside 1	csm		Gross	68020 lb
Out	01/31/2012 12:18:18		csm		Tare	27560 lb
					Net	40460 lb
					Tons	20.23

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.23	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

120215

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120215 PJK-ASC

Transporter Signature:

Truck #:
SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.83

Authorized Signature

Date (MM/DD/YY)
1/31/12

WASTE MANAGEMENT

1927548

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209870

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120215
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 12:37:44	Inside 1	csm		Gross	62500 lb
Out	01/31/2012 12:37:44		csm		Tare	28800 lb
					Net	33700 lb
					Tons	16.85

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.85	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120216

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ DRADDYS ON BEHALF OF CSX

CSX Approval #:
20120216 PJC-ASC

Transporter Signature:

Truck #:
SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.61

Authorized Signature

Date (MM/DD/YY) 1/31/12

WASTE MANAGEMENT

1927553

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209874

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120216
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 12:46:27	Inside 1	csm		Gross	61360 lb
Out	01/31/2012 12:46:27		csm		Tare	28140 lb
					Net	33220 lb
					Tons	16.61

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.61	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120217

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 ton

Generator Signature:

w/ ARCADIS
[signature] ON BEHALF OF CSX

CSX Approval #:

201200217 PJK-ASC

Transporter Signature:

[signature]

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.95

[signature]
Authorized Signature

1/31/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927552

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209873

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120217
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 12:44:33	Inside 1	csm		Gross	62900 lb
Out	01/31/2012 12:44:33		csm		Tare	27000 lb
					Net	35900 lb
					Tons	17.95

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.95	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Dan K Taylor

403WM

6

#120218

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TONS

Generator Signature:
W/ ARLOADS ON BEHALF OF CSX

CSX Approval #:
3012000218 PTK-AMC

Transporter Signature:

Truck #:
A+ 1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.55

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927565

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209086

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120218
De ıation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 13:18:56	Inside 1	csm		Gross	58760 lb
Out	01/31/2012 13:18:56		csm		Tare	25660 lb
					Net	33100 lb
					Tons	16.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		16.55	Tons				MONROE-53

Total Tax
Total Ticket

Dri. 's Signature

403WM

6

#120219

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
30 TON

Generator Signature:
w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120219 - PJK-ASC

Transporter Signature:

Truck #:
A+ 1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.63

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927564

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209885

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120219
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 13:17:45	Inside 1	csm		Gross	65560 lb
Out	01/31/2012 13:17:45		csm		Tare	26300 lb
					Net	39260 lb
					Tons	19.63

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.63	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120220

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARIADIS ON BEHALF OF CSX

CSX Approval #:
201200220 PSX-ASC

Transporter Signature:

Truck #:
A* 1311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.01

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927566

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209887

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120220
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 13:19:46	Inside 1	csm		Gross	65540 lb
Out	01/31/2012 13:19:46		csm		Tare	27520 lb
					Net	38020 lb
					Tons	19.01

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.01	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

#120221

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
2012000321 PDC-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.59

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927569

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209890

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120221
De: ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

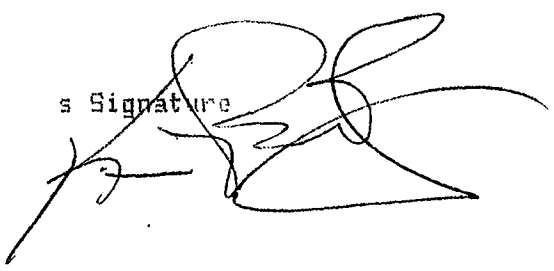
	Time	Scale	Operator	Inbound		
In	01/31/2012 13:23:45	Inside 1	csm		Gross	67360 lb
Out	01/31/2012 13:23:45		csm		Tare	28180 lb
					Net	39180 lb
					Tons	19.59

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.59	Tons				MONROE-53

Total Tax
Total Ticket

ri: s Signature



403WM

120222

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120022 FJK-ASC

Transporter Signature:

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 12.37

Authorized Signature

Date (MM/DD/YY) 3/16/12

WASTE MANAGEMENT

1927567

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209888

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120222
D. :nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 13:21:41	Inside 1	csm		Gross	60760 lb
Out	01/31/2012 13:21:41		csm		Tare	26020 lb
					Net	34740 lb
					Tons	17.37

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.37	Tons				MONROE-53

Total Tax
Total Ticket

Dr. :r's Signature

403WM

#120223

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ACUADIS ON BEHALF OF CSX

CSX Approval #:
20120023 PTW-ASC

Transporter Signature:

Truck #:
2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16.45

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927581

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209902

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120223
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 13:37:29	Inside 1	csm		Gross	60360 lb
Out	01/31/2012 13:37:29		csm		Tare	27460 lb
					Net	32900 lb
					Tons	16.45

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.45	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Jim Benchamin

403WM

120224

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ RELEASES ON BEHALF OF CSX

CSX Approval #:
20120224 PJK-ASC

Transporter Signature:

Truck #:
SPE-04

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:**

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927612

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209937

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120224
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 15:17:09	Inside 1	ces		Gross	64100 lb
Out	01/31/2012 15:17:09		ces		Tare	27560 lb
					Net	36540 lb
					Tons	18.27

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.27	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120225

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120225 PJK-ASC

Transporter Signature:

Truck #:
SPE - 03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.86

Authorized Signature

Date (MM/DD/YY) 1-31-12

WASTE MANAGEMENT

1927619

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1209944

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120225
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 15:44:05	Inside 1	ces		Gross	66520 lb
Out	01/31/2012 15:44:05		ces		Tare	28800 lb
					Net	37720 lb
					Tons	18.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.86	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120226

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
30 Tons

Generator Signature:
w/ eCAIDPS
on behalf of CSX

CSX Approval #:
20120O226 PJK-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.34

Authorized Signature

Date (MM/DD/YY) 1-31-12

WASTE MANAGEMENT

1927620

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209945

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120226
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 15:44:34	Inside 1	ces		Gross	64820 lb
Out	01/31/2012 15:44:34		ces		Tare	28140 lb
					Net	36680 lb
					Tons	18.34

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.34	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

#120227

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012000227 PSK-ASC

Transporter Signature:

Dan K Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.24

CD
Authorized Signature

1.31.12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927623

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1209949

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120227
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99 Volume
Container
Driver
Check#
Billing # 0001344
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:10:20	Inside 1	ces		Gross	61480 lb
Out	01/31/2012 16:10:20		ces		Tare	27000 lb
					Net	34480 lb
					Tons	17.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.24	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature Dan L Taylor

403WM

#120228

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200228 PSC-ASC

Transporter Signature:

Truck #:
A+ 1316

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15-39

CD
Authorized Signature

12-31-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927625

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209951

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120228
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:18:43	Inside 1	ces		Gross	57080 lb
Out	01/31/2012 16:18:43		ces		Tare	26300 lb
					Net	30780 lb
					Tons	15.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		15.39	Tons				MONROE-53

Total Tax
Total Ticket

Driv 's Signature

403WM

#120229

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Ton

Generator Signature:

w/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120029 PJK-ASC.

Transporter Signature:

Truck #:

AT 1309

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 19.10

CD

Authorized Signature

1-31-13

Date (MM/DD/YY)

1927626

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209952

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	01/31/2012	Vehicle#	1309
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120229		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:26:45	Inside 1	ces		Gross	63980 lb
Out	01/31/2012 16:26:45		ces		Tare	25660 lb
					Net	38320 lb
					Tons	19.16

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120330

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature:

W/ADDITS
ON BEHALF OF CSX

CSX Approval #:

201200230 PSK-ASC

Transporter Signature:

Truck #:

A+ 1311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 110.25

CD

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927627

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209953

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120230
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:29:08	Inside 1	ces		Gross	59960 lb
Out	01/31/2012 16:29:08		ces		Tare	27520 lb
					Net	32440 lb
					Tons	16.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.22	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120231

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ACCEPTS ON BEHALF OF CSX

CSX Approval #:

20120231 PSX-ASC

Transporter Signature:

Truck #:

SPE-02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 19.45

CD

Authorized Signature

1-31-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927628

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209954

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120231
Dest tion
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:32:07	Inside 1	ces		Gross	67080 lb
Out	01/31/2012 16:32:07		ces		Tare	28180 lb
					Net	38900 lb
					Tons	19.45

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth~	100	19.45	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

603WM

#120232

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-300-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
M/ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200232 PJK-ASC

Transporter Signature:

Truck #:
A+ 1315

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.68

CD
Authorized Signature

1-31-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927629

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209955

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120232
Des ation
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:43:58	Inside 1	ces		Gross	63940 lb
Out	01/31/2012 16:43:58		ces		Tare	26580 lb
					Net	37360 lb
					Tons	18.68

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		18.68	Tons				MONROE-53

Total Tax
Total Ticket

rive s Signature

403WM

#20233

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARIADIS ON BEHALF OF CSX

CSX Approval #:
201200233 PSX-ASC

Transporter Signature:

Truck #:
1300

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.10

Authorized Signature

Date (MM/DD/YY) 1-31-12

WASTE MANAGEMENT

1927630

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209956

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120233
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	01/31/2012 16:54:39	Inside i	ces		Gross	65420 lb
Out	01/31/2012 16:54:39		ces		Tare	25220 lb
					Net	40200 lb
					Tons	20.10

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.10	Tons				MONROE-53

Total Tax
Total Ticket

riv. s Signature

403WM

#120234

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLONIS ON BEHALF OF CSX

CSX Approval #:

2012000234 PSK-AGC

Transporter Signature:

Truck #:

A+ 1308

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.42

Authorized Signature

1-31-13

Date (MM/DD/YY)

WASTE MANAGEMENT

1927631

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1209957

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 01/31/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120234
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1308
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	66640 lb
In	01/31/2012 17:00:21	Inside 1	ces		Tare	25840 lb*
Out	01/31/2012 17:00:48	Inside 1	ces		Net	40800 lb
			* Manual Weight		Tons	20.40

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.40	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

David Adam

103WM

120235

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120035 PJK-ASC

Transporter Signature:

Truck #:

SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 15.24

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927689

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210022

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120235
De ination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:27:02	Inside 1	csm		Gross	59280 lb
Out	02/01/2012 09:27:02		csm		Tare	28800 lb
					Net	30480 lb
					Tons	15.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.24	Tons				MONROE-53

Total Tax
Total Ticket

Dri r's Signature

403WM

#120236

WASTE MANAGEMENT

Industrial Waste Disposal Manifest

Profile Number: 606414IN_

Expiration Date: 12/02/2012

ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLANDS ON BEHALF OF CSX

CSX Approval #:

201200236 PJL-ASC

Transporter Signature:

Truck #:

2053

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 18.16

Authorized Signature

2/1/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927690

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210023

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120236
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:27:50	Inside 1	csm		Gross	63780 lb
Out	02/01/2012 09:27:50		csm		Tare	27460 lb
					Net	36320 lb
					Tons	18.16

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		18.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature J. M. Bandhauer

403WM

#120237

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120237 FOR-ASC

Transporter Signature:

Truck #:

SPE-01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 2000

Authorized Signature

2/1/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927692

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210025

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120237
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:30:03	Inside 1	csm		Gross	69540 lb
Out	02/01/2012 09:30:03		csm		Tare	28140 lb
					Net	41400 lb
					Tons	20.70

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.70	Tons				MONROE-53

ure

Total Tax
Total Ticket

#120238

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS
on BEHALF OF CSX

CSX Approval #:
20120238 PSK-ASC

Transporter Signature:
Steve Howell

Truck #:
A+ 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.77

CD
Authorized Signature

2.1.13
Date (MM/DD/YY)

WASTE MANAGEMENT

1927697

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210030

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120238
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:37:54	Inside 1	ces		Gross	65920 lb
Out	02/01/2012 09:37:54		ces		Tare	26380 lb
					Net	39540 lb
					Tons	19.77

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.77	Tons				MONROE-53

Total Tax
Total Ticket

Dri r's Signature Steve Harrell

403WM

#120239

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ADDNDS ON BEHALF OF CSX

CSX Approval #:

20120239 PSK-ASC

Transporter Signature:

Truck #:

A+ 1300

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.60

Authorized Signature

2-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927698

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210031

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120239
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:38:32	Inside 1	ces		Gross	62420 lb
Out	02/01/2012 09:38:32		ces		Tare	25220 lb
					Net	37200 lb
					Tons	18.60

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.60	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120240

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120240 PSC-ASC

Transporter Signature:

Truck #:
A+ 1311

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.11

Authorized Signature

Date (MM/DD/YY) 2.1.12

WASTE MANAGEMENT

1927704

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210037

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120240
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 09:50:28	Inside 1	ces		Gross	69740 lb
Out	02/01/2012 09:50:28		ces		Tare	27520 lb
					Net	42220 lb
					Tons	21.11

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.11	Tons				MONROE-53

Total Tax
Total Ticket

Dr. er's Signature

403WM

#120241

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120024l PSC-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.43

Authorized Signature

Date (MM/DD/YY) 2-1-12

ASTE MANAGEMENT

1927705

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210038

ustomer Name WM NATL CSX 606414IN WM NATL Carrier Speads
icket Date 02/01/2012 Vehicle# 2 Volume
ayment Type Credit Account Container
anual Ticket# Driver
auling Ticket# Check#
oute Billing # 0001944
tate Waste Code Gen EPA ID
anifest 120241
estination
)
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
n	02/01/2012 09:51:30	Inside i	ces		Gross	65040 lb
ut	02/01/2012 09:51:30		ces		Tare	28180 lb
					Net	36860 lb
					Tons	18.43

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	18.43	Tons				MONROE-53

Total Tax
Total Ticket

ver' Signature

WM

120242

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120242 PSC-ASC

Transporter Signature:

Truck #:

4-41

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.69

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927714

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210049

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120242
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 41 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound	Gross	67080 lb
In	02/01/2012 10:15:26	Inside 1	ces		Tare	27800 lb
Out	02/01/2012 10:15:26		ces		Net	39280 lb
					Tons	19.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.64	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120243

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

80 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120029 3 PSK-ASC

Transporter Signature:

Dan K Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.96

CD

Authorized Signature

2-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927707

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210041

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120243
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	02/01/2012 10:00:10	Inside 1	ces		Gross	68920 lb
Out	02/01/2012 10:00:10		ces		Tare	27000 lb
					Net	41920 lb
					Tons	20.96

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.96	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Dan K Taylor

403WM

#120244

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120024 PSC-ASC

Transporter Signature:

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.39

Authorized Signature

Date (MM/DD/YY)
2-1-12

WASTE MANAGEMENT

1927717

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210052

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120244
Destination
PC
Prorile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	02/01/2012 10:23:23	Inside 1	ces		Gross	64800 lb
Out	02/01/2012 10:23:23		ces		Tare	26020 lb
					Net	38780 lb
					Tons	19.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.39	Tons				MONROE-53

Total Tax
Total Ticket

Dri ·'s Signature

403WM

120245

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
[signature] W/ARCADES ON BEHALF OF CSX

CSX Approval #:
20120245 PSK-GSC

Transporter Signature:
[signature]

Truck #:
4-6

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.08

[signature]
Authorized Signature

9-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927713

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210048

ustomer Name	WM NATL CSX 606414IN WM NATL	Carrier	Young Trucking dump
icket Date	02/01/2012	Vehicle#	6
ayment Type	Credit Account	Container	
anual Ticket#		Driver	
auling Ticket#		Check#	
oute		Billing #	0001944
tate Waste Code		Gen EPA ID	
anifest	120245		
estination			
O			
rofile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
enerator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
n	02/01/2012 10:14:27	Inside 1	ces		Gross	68460 lb
ut	02/01/2012 10:14:27		ces		Tare	28300 lb
					Net	40160 lb
					Tons	20.08

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	20.08	Tons				MONROE-53

Total Tax
Total Ticket

ive : Signature

03WM

#120246

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARLADFS ON BEHALF OF CSX

CSX Approval #:
20120246 RJK-ASC

Transporter Signature:

Truck #:
01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.34

Authorized Signature

Date (MM/DD/YY) 2/6/12

WASTE MANAGEMENT

1927758

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210098

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 606414IN
Destination 120246
PO
Prorile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 12:24:49	Inside 1	csm		Gross	70640 lb*
Out	02/01/2012 12:24:49		csm		Tare	27960 lb*
			* Manual Weight		Net	42680 lb
					Tons	21.34

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.34	Tons				MONROE-53

Total Tax
Total Ticket

Dr r's Signature

403WM

120247

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120247 PJK-ASL

Transporter Signature:
Jim Benshoff

Truck #:
2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.05

Authorized Signature

Date (MM/DD/YY) 2/1/12

ASTE MANAGEMENT

1927764

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210105

ustomer Name WM NATL CSX 606414IN WM NATL
icket Date 02/01/2012
ayment Type Credit Account
anual Ticket#
auling Ticket#
oute
tate Waste Code
anifest 120247
estination
'O
rof. : 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
n	02/01/2012 12:37:07	Inside i	csm		Gross	67560 lb
ut	02/01/2012 12:37:07		csm		Tare	27460 lb
					Net	40100 lb
					Tons	20.05

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	20.05	Tons				MONROE-53

Total Tax
Total Ticket

iver's Signature Jim Bonham

03WM

#120248

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ARLANDS ON BEHALF OF CSX

CSX Approval #:

201200248 RJK-ASC

Transporter Signature:

Truck #:

Y-34

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.67

Authorized Signature

Date (MM/DD/YY) 2/1/12

WASTE MANAGEMENT

1927774

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1210116

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120248
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 34
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:01:40	Inside 1	csm		Gross	73360 lb
Out	02/01/2012 13:01:40		csm		Tare	28020 lb
					Net	45340 lb
					Tons	22.67

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.67	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM

120249

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200249 PSC-ASC

Transporter Signature:

Truck #:
Y-36

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 21.77

Authorized Signature

Date (MM/DD/YY) 2/1/12

WASTE MANAGEMENT

1927776

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210118

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120249
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 36
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:03:33	Inside 1	csm		Gross	72140 lb
Out	02/01/2012 13:03:33		csm		Tare	28600 lb
					Net	43540 lb
					Tons	21.77

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.77	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120250

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARLADES
ON BEHALF OF CSX

CSX Approval #:

20/200250 PJK-ASC

Transporter Signature:

Steve Howell

Truck #:

A+ 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.92

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1927772

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210114

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120250
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 12:59:33	Inside 1	csm		Gross	71620 lb
Out	02/01/2012 12:59:33		csm		Tare	25780 lb
					Net	45840 lb
					Tons	22.92

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.92	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

#120251

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARLADES ON BEHALF OF CSX

CSX Approval #:
20120025 1 PSK-ASC

Transporter Signature:

Truck #:
A+ 1300

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.00

Authorized Signature

Date (MM/DD/YY) 2/1/12

WASTE MANAGEMENT

1927773

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210115

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120251
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus Dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	69220 lb
In	02/01/2012 13:00:10	Inside 1	csm		Tare	25220 lb
Out	02/01/2012 13:00:10		csm		Net	44000 lb
					Tons	22.00

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.00	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

Paul Sipes JA

403WM

#120252

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: H/ARCADIS
ON BEHALF OF CSX

CSX Approval #:
20120025 2 CSX-ASC

Transporter Signature:

Truck #:
A+ 1311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 23.23

Authorized Signature

Date (MM/DD/YY) 2/1/12

WASTE MANAGEMENT

1927777

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210119

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120252
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:05:06	Inside 1	csm		Gross	73980 lb
Out	02/01/2012 13:05:06		csm		Tare	27520 lb
					Net	46460 lb
					Tons	23.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	23.23	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120253

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: N/ARCADIS
Wesley Park ON BEHALF OF CSX

CSX Approval #:
201200253 PSC-ASC

Transporter Signature:
Dan L Taylor

Truck #:
T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.64

CD
Authorized Signature

7-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927781

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210124

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120253
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:14:32	Inside 1	ces		Gross	70280 lb
Out	02/01/2012 13:14:32		ces		Tare	27000 lb
					Net	43280 lb
					Tons	21.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.64	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Don K Taylor

403WM

6

120254

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN__
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARLANES
[signature] ON BEHALF OF CSX

CSX Approval #:
20120254 FJK-ASC

Transporter Signature:
[signature]

Truck #:
Y-4

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.25

[signature]
Authorized Signature

1-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927783

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210126

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120254
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:21:46	Inside 1	ces		Gross	69560 lb
Out	02/01/2012 13:21:46		ces		Tare	29060 lb
					Net	40500 lb
					Tons	20.25

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.25	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120255

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ DELIVERIES

ON BEHALF OF CSX

CSX Approval #:

20120055 PSC-ASC

Transporter Signature:

Truck #:

Y-6

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 23.53

CD

Authorized Signature

7-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927784

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210127

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120255
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 6
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:22:24	Inside 1	ces		Gross	75360 lb
Out	02/01/2012 13:22:24		ces		Tare	28300 lb
					Net	47060 lb
					Tons	23.53

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.53	Tons				MONROE-53

Total Tax
Total Ticket

ri s Signature

403WM

#120256

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARIADIS ON BEHALF OF CSX

CSX Approval #:
201200256 PSK-ASC

Transporter Signature:
Steve E Bunge

Truck #:
Y-41

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.82

CD
Authorized Signature

2-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927785

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1210128

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120256
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 41
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:23:32	Inside 1	ces		Gross	69440 lb
Out	02/01/2012 13:23:32		ces		Tare	27800 lb
					Net	41640 lb
					Tons	20.82

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		20.82	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

120257

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
30 TON

Generator Signature: W/ARCADIS
[signature] ON BEHALF OF CSX

CSX Approval #:
2012000257 PSK-ASK

Transporter Signature:
[signature]

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.80

[signature]
Authorized Signature

12-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927786

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210129

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120257
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 13:24:16	Inside 1	ces		Gross	75520 lb
Out	02/01/2012 13:24:16		ces		Tare	26020 lb
					Net	49600 lb
					Tons	24.80

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		24.80	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

03WM

#120258

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120258 PTC-ASC

Transporter Signature:

Truck #:
2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 23.34

Authorized Signature

Date (MM/DD/YY): 2-1-12

WASTE MANAGEMENT

1927815

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210161

ustomer Name WM NATL CSX 606414IN WM NATL Carrier STANGER
icket Date 02/01/2012 Vehicle# 2053 Volume
ayment Type Credit Account Container
anual Ticket# Driver
auling Ticket# Check#
oute Billing # 0001944
tate Waste Code Gen EPA ID
anifest 120258
est' tion
O
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
n	02/01/2012 15:36:42	Inside 1	ces		Gross	74140 lb
ut	02/01/2012 15:36:42		ces		Tare	27460 lb
					Net	46680 lb
					Tons	23.34

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	23.34	Tons				MONROE-53

Total Tax
Total Ticket

ive Signature

3WM

#120259

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARDIPS
ON BEHALF OF CSX

CSX Approval #:
20120259 PJK-ASC

Transporter Signature:

Truck #:
AT 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.86

CD
Authorized Signature

1-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927818

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210164

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120259
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:08:00	Inside 1	ces		Gross	66100 lb
Out	02/01/2012 16:08:00		ces		Tare	26380 lb
					Net	39720 lb
					Tons	19.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.86	Tons				MONROE-53

Total Tax
Total Ticket

Dr: 's Signature Steve Howell

403WM

#120260

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: w/ACCORDS

ON BEHALF OF CSX

CSX Approval #:

20120260 PJK-ASC

Transporter Signature:

Truck #:

A+ 1300

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.63

CD

Authorized Signature

2-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927819

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2079

Original
Ticket# 1210165

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120260
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:08:38	Inside i	ces		Gross	64480 lb
Out	02/01/2012 16:08:38		ces		Tare	25220 lb
					Net	39260 lb
					Tons	19.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.63	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

6

#120261

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: N/ARCADES

ON BEHALF OF CSX

CSX Approval #:

201200261 PSK-ASL

Transporter Signature:

Truck #:

A+ 1311

Section B **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.81

CD

Authorized Signature

7-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927821

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210167

ustomer Name WM NATL CSX 606414IN WM NATL Carrier APlus Jump
icket Date 02/01/2012 Vehicle# 1311 Volume
ayment Type Credit Account Container
anual Ticket# Driver
auling Ticket# Check#
oute Billing # 0001944
tate Waste Code Gen EPA ID
anifest 120261
est' tion
0
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
n	02/01/2012 16:12:06	Inside 1	ces		Gross	67140 lb
ut	02/01/2012 16:12:06		ces		Tare	27520 lb
					Net	39620 lb
					Tons	19.81

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth~	100	19.81	Tons				MONROE-53

Total Tax
Total Ticket

ive Signature

3WM

#120262

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: W/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:
2012.00262 PSK-ASC

Transporter Signature:

Truck #:
AT 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.13

Authorized Signature

2-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927822

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210168

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 12026[illegible]2
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:12:40	Inside 1	ces		Gross	71260 lb
Out	02/01/2012 16:12:40		ces		Tare	27000 lb
					Net	44260 lb
					Tons	22.13

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.13	Tons				MONROE-53

Total Tax
Total Ticket

Dri[illegible]'s Signature

403WM

#120263

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120026 3 PSK-ASC

Transporter Signature:
Dan K Taylor

Truck #:
T-99

Section B — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 13.37

CD
Authorized Signature

2-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927823

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210169

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120263
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:19:02	Inside 1	ces		Gross	53740 lb
Out	02/01/2012 16:19:02		ces		Tare	27000 lb
					Net	26740 lb
					Tons	13.37

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	13.37	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature Dan K Tay

403WM

8

#120264

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120026 4 FSK-ASC

Transporter Signature:

Truck #:
A+ 1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.09

Authorized Signature

Date (MM/DD/YY) 2-1-12

WASTE MANAGEMENT

1927825

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210171

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120264
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:35:31	Inside 1	ces		Gross	61840 lb
Out	02/01/2012 16:35:31		ces		Tare	25660 lb
					Net	36180 lb
					Tons	18.09

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.09	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

#120265

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120265 PJK-ASL

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.58

Authorized Signature

Date (MM/DD/YY) 2/17/12

WASTE MANAGEMENT

1927824

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210170

Customer Name WM NATL CSX G06414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120265
De ination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:25:45	Inside 1	ces		Gross	63180 lb
Out	02/01/2012 16:25:45		ces		Tare	26020 lb
					Net	37160 lb
					Tons	18.58

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.50	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

#120266

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ADDITS ON BEHALF OF CSX

CSX Approval #:

20120026 FSK-ASC

Transporter Signature:

Truck #:

A-1315

Section C **DISPOSAL SITE INFORMATIO**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.84

CD

Authorized Signature

7-1-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927826

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210172

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120266
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:44:39	Inside 1	ces		Gross	70260 lb
Out	02/01/2012 16:44:39		ces		Tare	26580 lb
					Net	43680 lb
					Tons	21.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		21.84	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120267

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ ARRANGS ON BEHALF OF CSX

CSX Approval #:
20120026 7 PSC-ASC

Transporter Signature:

Truck #:
SPE-02

Section B — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.14

Authorized Signature

Date (MM/DD/YY) 2-1-12

WASTE MANAGEMENT

1927827

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210173

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120267
De ination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:45:08	Inside 1	ces		Gross	64460 lb
Out	02/01/2012 16:45:08		ces		Tare	28180 lb
					Net	36280 lb
					Tons	18.14

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.14	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120268

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
[signature] W/RECEIPTS ON BEHALF OF CSX

CSX Approval #:
2012002268 ASC-ASC

Transporter Signature:
[signature]

Truck #:
A- 1304

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.18

[signature]
Authorized Signature

2-1-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927829

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210175

Customer Name WM NATL CSX 606414IN WM NATL Carrier APlus dump
Ticket Date 02/01/2012 Vehicle# 1304 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120260
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/01/2012 16:59:11	Inside 1	ces		Gross	64220 lb
Out	02/01/2012 16:39:11		ces		Tare	25860 lb
					Net	38360 lb
					Tons	19.18

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.18	Tons				MONROE-53

Total Tax
Total Ticket

ri\ s Signature

403WM

#120269

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ DRIVERS ON BEHALF OF CSX

CSX Approval #:
20120269 PSK-ASC

Transporter Signature:

Truck #:
A+ 1308

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.57

Authorized Signature

Date (MM/DD/YY) 2-1-12

WASTE MANAGEMENT

1927831

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210176

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120269
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1308
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/01/2012 17:04:18	Inside 1	ces		Gross	70340 lb
Out	02/01/2012 17:18:21	Inside 1	ces		Tare	33300 lb
					Net	37040 lb
					Tons	18.52

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.52	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

6

#120270

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200270 PSVC-ASC

Transporter Signature:

Truck #:
03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 **Amount:** 21.55

CD

Authorized Signature

2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927830

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210177

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Huntley Excavating	
Ticket Date	02/01/2012	Vehicle#	3	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0001944	
State Waste Code		Gen EPA ID		
Manifest	120270			
Des ation				
PO				
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)			
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON			

	Time	Scale	Operator	Inbound	Gross	70480 lb
In	02/01/2012 17:05:43	Inside 1	ces		Tare	27380 lb
Out	02/01/2012 17:05:43		ces		Net	43100 lb
					Tons	21.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.55	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature

403WM

120271

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TONS

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120027 PSC-ASC

Transporter Signature:

Truck #:
SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.04

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927892

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210243

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120271
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 09:47:44	Inside 1	ces		Gross	70220 lb
Out	02/02/2012 09:47:44		ces		Tare	28140 lb
					Net	42080 lb
					Tons	21.04

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.04	Tons				MONROE-53

Total Tax
Total Ticket

-iv s Signature

103WM

#120272

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

Generator Signature:

w/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120272 PJK - PSC

Transporter Signature:

Truck #:

SPE-04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.35

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927893

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2079

Original
Ticket# 1210244

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120272
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 09:48:26	Inside 1	ces		Gross	66260 lb
Out	02/02/2012 09:48:26		ces		Tare	27560 lb
					Net	38700 lb
					Tons	19.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		19.35	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

Scott D

403WM

#120273

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ Receipts ON BEHALF OF CSX

CSX Approval #:
2012000273 TSVC - ASC

Transporter Signature:

Truck #:
At ~~2099~~ 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.97

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927894

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210245

Customer Name WM NATL CSX 606414IN WM NATL Carrier APlus dump
Ticket Date 02/02/2012 Vehicle# 1313 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120273
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/02/2012 09:53:39	Inside 1	ces		Gross	70320 lb
Out	02/02/2012 09:53:39		ces		Tare	26380 lb
					Net	43940 lb
					Tons	21.97

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.97	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature Steve Howell

403WM

120274

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012000274 PSVC-ASC

Transporter Signature:

Truck #:

AT 1300

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.66

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927895

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2979

Original
Ticket# 1210246

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120274
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 09:54:08	Inside 1	ces		Gross	66540 lb
Out	02/02/2012 09:54:08		ces		Tare	25220 lb
					Net	41320 lb
					Tons	20.66

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		20.66	Tons				MONROE-53

Total Tax
Total Ticket

ri s Signature

403WM

#120275

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200275 PSK-ASC

Transporter Signature:

Truck #:

A+ 1315

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.39

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927898

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210250

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120275
Des ation
PO
Profile 506414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:03:27	Inside 1	ces		Gross	67360 lb
Out	02/02/2012 10:03:27		ces		Tare	26580 lb
					Net	40780 lb
					Tons	20.39

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.39	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

#120276

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

Generator Signature:

W/ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20120276 BSE-ASC

Transporter Signature:

Don K Taylor

Truck #:

T-99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.69

CD

Authorized Signature

7-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927901

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210254

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120276
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# 699
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator
In	02/02/2012 10:08:18	Inside 1	ces
Out	02/02/2012 10:08:18		ces

Inbound

Gross	66300 lb
Tare	27000 lb
Net	39380 lb
Tons	19.69

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		19.69	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature Don Taylor

403WM

#120277

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200277

Transporter Signature:

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.98

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927899

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210252

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120277
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:05:32	Inside 1	ces		Gross	67980 lb
Out	02/02/2012 10:05:32		ces		Tare	26020 lb
					Net	41960 lb
					Tons	20.98

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.98	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120278

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ APPROVAL ON BEHALF OF CSXT

CSX Approval #:

201200278

Transporter Signature:

Truck #:

A+ 1305

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.26

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927902

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210255

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type **Credit Account**
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120278
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:08:57	Inside 1	ces		Gross	75520 lb
Out	02/02/2012 10:08:57		ces		Tare	27000 lb
					Net	48520 lb
					Tons	24.26

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.26	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

120279

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200279

Transporter Signature:

Truck #:

A+ 1311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number: 32-2** **Amount:** 23.14

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927907

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1210261

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120279
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:23:23	Inside 1	ces		Gross	73800 lb
Out	02/02/2012 10:23:23		ces		Tare	27520 lb
					Net	46280 lb
					Tons	23.14

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.14	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

120280

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120280

Transporter Signature:

Truck #:

THOMAS -99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.83

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927919

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210262

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120280
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:25:37	Inside 1	ces		Gross	54700 lb
Out	02/02/2012 10:40:05	Inside 1	ces		Tare	23040 lb
					Net	31660 lb
					Tons	15.83

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.83	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

120281

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature: w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120028l

Transporter Signature:

Truck #:
At 1306

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.48

Authorized Signature

2-2-17
Date (MM/DD/YY)

WASTE MANAGEMENT

1927912

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210266

Customer Name WM NATL CSX 6064141N WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120281
Dest ation
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:31:30	Inside 1	ces		Gross	67900 lb
Out	02/02/2012 10:31:30		ces		Tare	26940 lb
					Net	40960 lb
					Tons	20.48

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.48	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

120282

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200282

Transporter Signature:

Truck #:

H-1

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.21

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

1927916

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210271

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120282
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:36:20	Inside 1	ces		Gross	58300 lb
Out	02/02/2012 10:36:20		ces		Tare	27960 lb
					Net	30420 lb
					Tons	15.21

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.21	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

103WM

120283

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120283

Transporter Signature:

Truck #:

H-3

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.49

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927915

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210269

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120283
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:35:02	Inside 1	ces		Gross	68360 lb
Out	02/02/2012 10:35:02		ces		Tare	27380 lb
					Net	40980 lb
					Tons	20.49

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		20.49	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



103WM

120284

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120284

Transporter Signature:

[signature]

Truck #:

A+ 1308

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 16,20

[signature]
Authorized Signature

2/2/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927930

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210276

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120284
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1308
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 10:45:17	Inside 1	ces		Gross	62540 lb
Out	02/02/2012 11:04:21	Inside 1	csm		Tare	30140 lb
					Net	32400 lb
					Tons	16.20

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.20	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

120285

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
W/ ARCHES ON BEHALF OF CSX

CSX Approval #:
20120285 PJK-ASC

Transporter Signature:
Steve Howell

Truck #:
A+1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.85

CP

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927966

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210323

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120285
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141--CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 12:51:10	Inside 1	ces		Gross	70080 lb
Out	02/02/2012 12:51:10		ces		Tare	26380 lb
					Net	43700 lb
					Tons	21.85

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth--	100	21.85	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature Steve Howell

403WM

120286

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120 0286 PJK-ASL

Transporter Signature:

Truck #:

AT 1300

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.51

CS

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927969

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210326

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120286
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1300
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 12:54:46	Inside 1	ces		Gross	68240 lb
Out	02/02/2012 12:54:46		ces		Tare	25220 lb
					Net	43020 lb
					Tons	21.51

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth·	100	21.51	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

Paul Sipes

403WM

120287

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120287 PJK-ASC

Transporter Signature:

Truck #:

T 96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.57

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927970

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210327

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120287
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	71160 lb
In	02/02/2012 13:00:41	Inside 1	ces		Tare	26020 lb
Out	02/02/2012 13:00:41		ces		Net	45140 lb
					Tons	22.57

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.57	Tons				MONROE-53

Total Tax
Total Ticket

Dr: r's Signature

403WM

120288

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120288 PJK-ASC

Transporter Signature:

Dan R Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.78

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927971

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210328

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120288
De[illegible]ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	72560 lb
In	02/02/2012 13:03:14	Inside 1	ces		Tare	27000 lb
Out	02/02/2012 13:03:14		ces		Net	45560 lb
					Tons	22.78

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.78	Tons				MONROE-53

Total Tax
Total Ticket

Dri[illegible]'s Signature Dan Taylor

403WM

6

120289

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120289 PJK-ASC

Transporter Signature:

Wayne

Truck #:

A+ 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 25.70

C.D

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927975

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210332

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120289
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 13:08:40	Inside 1	ces		Gross	78400 lb
Out	02/02/2012 13:08:40		ces		Tare	27000 lb
					Net	51400 lb
					Tons	25.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	25.70	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120290

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
2012 00 290 PSILASC

Transporter Signature:

Truck #:
AT 1315

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.27

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927978

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210334

Customer Name WM NATL CSX 606414IN WM NATL Carrier APlus dump
Ticket Date 02/02/2012 Vehicle# 1315 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120290
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

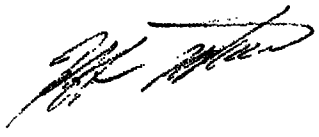
	Time	Scale	Operator	Inbound		
In	02/02/2012 13:20:30	Inside 1	ces		Gross	69120 lb
Out	02/02/2012 13:20:30		ces		Tare	26580 lb
					Net	42540 lb
					Tons	21.27

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.27	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM

120291

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON REMEDIATION CSX

CSX Approval #:

120 20120029 / PJK-ASC

Transporter Signature:

Truck #:

A+1311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.49

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1927979

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210335

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120291
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001044
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 13:29:02	Inside 1	ces		Gross	74500 lb
Out	02/02/2012 13:29:02		ces		Tare	27520 lb
					Net	46980 lb
					Tons	23.49

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.49	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

6

120292

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120292 PSK-ASC

Transporter Signature:

Truck #:
A+1306

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.35

CD
Authorized Signature

12-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927980

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210336

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120292
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	67640 lb
In	02/02/2012 13:30:35	Inside 1	ces		Tare	26940 lb
Out	02/02/2012 13:30:35		ces		Net	40700 lb
					Tons	20.35

Comments

Product	LO%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.35	Tons				MONROE-53

Total Tax
Total Ticket

Dr. 's Signature

403WM

/b

120293

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 00293 PJK-ASC

Transporter Signature:

Truck #:

THOMAS-99

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.08

Authorized Signature

2/2/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1927986

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210343

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120293
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 13:44:14	Inside 1	csm		Gross	63200 lb
Out	02/02/2012 13:44:14		csm		Tare	23040 lb
					Net	40160 lb
					Tons	20.08

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.08	Tons				MONROE-53

Total Tax
Total Ticket

Dr r's Signature

403WM

120294

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 00 294 ARCADIS

Transporter Signature:

David Allan

Truck #:

A+ 1308

Section B **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.34

Authorized Signature

2/2/12
Date (MM/DD/YY)

ASTE MANAGEMENT

1927992

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210350

ustomer Name WM NATL CSX 606414IN WM NATL Carrier APlus dump
icket Date 02/02/2012 Vehicle# 1308 Volume
ayment Type Credit Account Container
anual Ticket# Driver
auling Ticket# Check#
oute Billing # 0001944
tate Waste Code Gen EPA ID
anifest 120294
est ation
0
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
n	02/02/2012 14:03:24	Inside 1	csm		Gross	76820 lb
ut	02/02/2012 14:03:24		csm		Tare	30140 lb
					Net	46680 lb
					Tons	23.34

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		23.34	Tons				MONROE-53

Total Tax
Total Ticket

iv : Signature

David Ream

09WM

120295

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:
[signature] ON BEHALF OF CSX

CSX Approval #:
2012 00 295 PJK-ASC

Transporter Signature:
[signature]

Truck #:
T-96

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 116.93

[signature]
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928012

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210378

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120295
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

	Time	Scale	Operator	Inbound		
In	02/02/2012 15:46:19	Inside 1	ces		Gross	59880 lb
Out	02/02/2012 15:46:19		ces		Tare	26020 lb
					Net	33860 lb
					Tons	16.93

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.93	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120296

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120296 PJK-ASC

Transporter Signature:

Truck #:

AT 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19 53

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928013

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210379

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120296
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 15:59:10	Inside 1	ces		Gross	65440 lb
Out	02/02/2012 15:59:10		ces		Tare	26380 lb
					Net	39060 lb
					Tons	19.53

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.53	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature Steve Howell

403WM

120297

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 00 297 PSIC-ASC

Transporter Signature:

Dan'l Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.84

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928014

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210380

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120297
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 16:01:01	Inside 1	ces		Gross	66680 lb
Out	02/02/2012 16:01:01		ces		Tare	27000 lb
					Net	39680 lb
					Tons	19.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Dan K Taylor

403WM

120298

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120298 PJK-ASC

Transporter Signature:

Truck #:

A* 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.39

Authorized Signature

Date (MM/DD/YY) 1-7-12

WASTE MANAGEMENT

1928016

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210302

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120298
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 16:11:20	Inside 1	ces		Gross	75780 lb
Out	02/02/2012 16:11:20		ces		Tare	27000 lb
					Net	48780 lb
					Tons	24.39

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.39	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120299

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200299 PJK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.49

CA

Authorized Signature

7-9-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928017

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210383

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120299
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 16:17:19	Inside 1	ces		Gross	64540 lb
Out	02/02/2012 16:17:19		ces		Tare	27560 lb
					Net	36980 lb
					Tons	18.49

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.49	Tons				MONROE-53

Total Tax
Total Ticket

riv. s Signature

403WM

120300

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200300 RTC-ASC

Transporter Signature:

Truck #:

SPE-01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.75

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928019

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210385

Customer Name WM NATL CSX 606414IN WM NATL Carrier Speade
Ticket Date 02/02/2012 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120300
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound	Gross	70640 lb
In	02/02/2012 16:23:13	Inside 1	cee		Tare	28140 lb
Out	02/02/2012 16:23:13		cee		Net	42500 lb
					Tons	21.25

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120301

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200301 PTK-ASC

Transporter Signature:

Truck #:
A+ 1315

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.76

CD
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928021

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210387

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120301
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1315
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 16:32:08	Inside 1	ces		Gross	70100 lb
Out	02/02/2012 16:32:08		ces		Tare	26580 lb
					Net	43520 lb
					Tons	21.76

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.76	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

#120302

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLODIS ON BEHALF OF CSX

CSX Approval #:

20120302 PSC-ASC

Transporter Signature:

Truck #:

A+ 1311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.25

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928022

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210388

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120302
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/02/2012 16:40:21	Inside 1	cas		Gross	76020 lb
Out	02/02/2012 16:40:21		cas		Tare	27520 lb
					Net	48500 lb
					Tons	24.25

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth~ 100		24.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120303

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012003 03 PSK-ASC

Transporter Signature:

Truck #:

AT 1306

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.71

CA
Authorized Signature

2-2-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928023

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210389

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120303
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	64360 lb
In	02/02/2012 16:40:54	Inside 1	ces		Tare	26940 lb
Out	02/02/2012 16:40:54		ces		Net	37420 lb
					Tons	18.71

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.71	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120304

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ RELEASES ON BEHALF OF CSX

CSX Approval #:

2012003O4 PSK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 2,138

Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928085

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210454

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120304
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:25:39	Inside 1	csm		Gross	70320 lb
Out	02/03/2012 09:25:39		csm		Tare	27560 lb
					Net	42760 lb
					Tons	21.38

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		21.38	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120305

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120036S PSK-DSC

Transporter Signature:

Truck #:
SPE-02

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21,80

Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928086

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210455

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120305
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:27:08	Inside 1	csm		Gross	71780 lb
Out	02/03/2012 09:27:08		csm		Tare	28180 lb
					Net	43600 lb
					Tons	21.80

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		21.00	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120306

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200306 PSC-ASC

Transporter Signature:

Truck #:

A+ 1308

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.09

Authorized Signature

2-3-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928089

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210460

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120306
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1308
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	68320 lb
In	02/03/2012 09:33:57	Inside 1	ces		Tare	30140 lb
Out	02/03/2012 09:35:57		ces		Net	38180 lb
					Tons	19.09

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		19.09	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

David Adkins

403WM

6

#120307

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TONS

Generator Signature:
w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20130030? PJK-AGC

Transporter Signature:

Truck #:
T-99

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.50

CD
Authorized Signature

2-3-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928092

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2978

Original
Ticket# 1210464

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Taylor Trucking Dump
Ticket Date	02/03/2012	Vehicle#	t99
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120307		
De nation			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:40:40	Inside 1	ces		Gross	76000 lb
Out	02/03/2012 09:40:40		ces		Tare	27000 lb
					Net	49000 lb
					Tons	24.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	24.50	Tons				MONROE-53

Total Tax
Total Ticket

Dr ''s Signature Dan K Taylor

403WM

6

#120308

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ PROVIDES
ON BEHALF OF CSX

CSX Approval #:

201200308 PSC-ASC

Transporter Signature:

Steve Howell

Truck #:

A+ 1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.16

CD

Authorized Signature

2-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928090

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210462

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120308
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:39:28	Inside 1	ces		Gross	68700 lb
Out	02/03/2012 09:39:28		ces		Tare	26380 lb
					Net	42320 lb
					Tons	21.16

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sp Waste Solid Oth-	100	21.16	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Steve Hall

403WM

#120309

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120309 PSK-ASC

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.92

CD
Authorized Signature

2-3-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928091

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210463

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120309
D ination
PL
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:40:03	Inside 1	ces		Gross	63860 lb
Out	02/03/2012 09:40:03		ces		Tare	26020 lb
					Net	37840 lb
					Tons	18.92

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.92	Tons				MONROE-53

Total Tax
Total Ticket

Dr r's Signature

403WM

#120310

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/DRIVERS ON BEHALF OF CSX

CSX Approval #:

20120310 PSK-ASC

Transporter Signature:

Truck #:

THOMAS-99

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.42

CD

Authorized Signature

2-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928095

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210467

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 123310
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	57800 lb
In	02/03/2012 09:45:09	Inside 1	ces		Tare	23040 lb
Out	02/03/2012 09:45:09		ces		Net	34840 lb
					Tons	17.42

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	17.42	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120311

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ RECEIPTS ON BEHALF OF CSX

CSX Approval #:

20120031 PSVC - ASC

Transporter Signature:

Truck #:

H-3

Section C **DISPOSAL FACILITY INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.38

CD

Authorized Signature

2-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928102

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210474

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120311
D ination
Pu
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 09:58:53	Inside 1	ces		Gross	74140 lb
Out	02/03/2012 09:58:53		ces		Tare	27380 lb
					Net	46760 lb
					Tons	23.38

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.38	Tons				MONROE-53

Total Tax
Total Ticket

D er's Signature

403WM

#120812

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120031? PSC-ASC

Transporter Signature:

Truck #:

SPE-01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.79

Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928120

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210496

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120312
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 10:53:06	Inside 1	csm		Gross	73720 lb
Out	02/03/2012 10:53:06		csm		Tare	28140 lb
					Net	45580 lb
					Tons	22.79

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth~	100	22.79	Tons				MONROE-53

Total Tax
Total Ticket

Dri ''s Signature

403WM

6

120313

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120313 PSK-ASC

Transporter Signature:
[signature]

Truck #:
H-1

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.64

[signature]
Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1923124

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210501

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120313
Des ation
PO
Profile 606414(N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 11:09:46	Inside 1	csm		Gross	69240 lb*
Out	02/03/2012 11:09:46		csm		Tare	27960 lb*
			* Manual Weight		Net	41280 lb
					Tons	20.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.64	Tons				MONROE-53

Total Tax
Total Ticket

Ori 's Signature

403WM

120314

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] by ARCADIS on BEHALF OF CSX

CSX Approval #:

20120314 PJK-ASC

Transporter Signature:

[signature]

Truck #:

SPE-04

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.95

Authorized Signature

Date (MM/DD/YY)

WASTE MANAGEMENT

1928153

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210532

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120314
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 12:37:42	Inside 1	csm		Gross	77460 lb
Out	02/03/2012 12:37:42		csm		Tare	27560 lb
					Net	49900 lb
					Tons	24.95

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.95	Tons				MONROE-53

Total Tax
Total Ticket

Dr. ..'s Signature

403WM

120315

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:
20 T

Generator Signature:

CSX Approval #:
20120031S PSKASC

Transporter Signature:

Truck #:
A+ 1305

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** $6,134

Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928160

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210533

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120315
Destination
PO
Profile 506414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 12:52:11	Inside 1	csm		Gross	79680 lb
Out	02/03/2012 12:52:11		csm		Tare	27000 lb
					Net	52680 lb
					Tons	26.34

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.34	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120316

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ACCESS ON BEHALF OF CSX

CSX Approval #:

20120316 PJK-ASC

Transporter Signature:

Truck #:

SPG-02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 22.55

Authorized Signature

2/3/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928162

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210541

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120316
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speade
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 12:54:23	Inside 1	csm		Gross	73280 lb
Out	02/03/2012 12:54:23		csm		Tare	28180 lb
					Net	45100 lb
					Tons	22.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.55	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

120 317

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120317 PJK-ASC

Transporter Signature:

Truck #:

A-1311

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.29

CD

Authorized Signature

1-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928169

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2378

Original
Ticket# 1210548

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120317
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1311
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:09:01	Inside 1	ces		Gross	74100 lb
Out	02/03/2012 13:09:01		ces		Tare	27520 lb
					Net	46580 lb
					Tons	23.29

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.29	Tons				MONROE-53

Total Tax
Total Ticket

Dr e's Signature

403WM

6

120 318

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

[signature] ON BEHALF OF CSX

CSX Approval #:

20120031 8 PJK ASC

Transporter Signature:

Dan N Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.73

[signature]
Authorized Signature

2/3/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928167

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210546

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120318
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:04:36	Inside 1	csm		Gross	70460 lb
Out	02/03/2012 13:04:36		csm		Tare	27000 lb
					Net	43460 lb
					Tons	21.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.73	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature Dan L Taylor

403WM

120319

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20120319 PJK-AR

Transporter Signature:

Truck #:

THOMAS -99

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.70

CD

Authorized Signature

1-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928170

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210549

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	THOMAS TRUCK EXC
Ticket Date	02/03/2012	Vehicle#	99
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120319		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:10:30	Inside 1	ces		Gross	60440 lb
Out	02/03/2012 13:10:30		ces		Tare	23040 lb
					Net	37400 lb
					Tons	18.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		18.70	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120320

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated,impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120320 AJK-ASC

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.05

Authorized Signature

3/3/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928168

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210547

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120320
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:05:27	Inside 1	csm		Gross	72120 lb
Out	02/03/2012 13:05:27		csm		Tare	26020 lb
					Net	46100 lb
					Tons	23.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.05	Tons				MONROE-53

Total Tax
Total Ticket

Dr r's Signature

403WM

6

120321

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120321 PTK-ASC

Transporter Signature:

Truck #:
A+ 1308

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.86

CD
Authorized Signature

2-3-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928171

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210551

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	02/03/2012	Vehicle#	1308
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120321		
Des ation			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:16:55	Inside 1	ces		Gross	67860 lb
Out	02/03/2012 13:16:55		ces		Tare	30140 lb
					Net	37720 lb
					Tons	18.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.86	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

David Abram

403WM

120322

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

AT AREAS IN BEHALF OF CSX

CSX Approval #:

201200322 PSK-ASC

Transporter Signature:

Joe

Truck #:

A+1306

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 25.54

CD
Authorized Signature

2-3-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928173

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1210553

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120322
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:18:59	Inside 1	ces		Gross	78020 lb
Out	02/03/2012 13:18:59		ces		Tare	26940 lb
					Net	51080 lb
					Tons	25.54

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	25.54	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature Joe

403WM

6

120323

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

WJ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120323 PSK-ASC

Transporter Signature:

Truck #:

SAE-01

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 25.45

CD

Authorized Signature

2-3-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928193

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1210572

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/03/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120323
De: ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/03/2012 13:59:07	Inside 1	ces		Gross	79040 lb
Out	02/03/2012 13:59:07		ces		Tare	28140 lb
					Net	50900 lb
					Tons	25.45

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	25.45	Tons				MONROE-53

Total Tax
Total Ticket

Dri. .'s Signature

403WM

120324

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

M ARCHAIS ON BEHALF OF CSX

CSX Approval #:

20120324 PJK-ASC

Transporter Signature:

Truck #:

SPE-03

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.61

Authorized Signature

7-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928274

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2073

Original
Ticket# 1210659

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120324
De ination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:19:45	Inside 1	ces		Gross	70020 lb
Out	02/06/2012 09:19:45		ces		Tare	28800 lb
					Net	41220 lb
					Tons	20.61

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.61	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

120 325

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 00325 PJK-ASC

Transporter Signature:

Truck #:

SPE-01

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20-30

CD

Authorized Signature

1-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928276

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1210661

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120325
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:25:52	Inside 1	ces		Gross	68740 lb
Out	02/06/2012 09:25:52		ces		Tare	28140 lb
					Net	40600 lb
					Tons	20.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.30	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120326

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: WP ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120326 PTV-ASC

Transporter Signature:

Truck #:

T-178

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.28

CD

Authorized Signature

7-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928275

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210660

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 1203~~6~~ 2
Der ıation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:24:15	Inside 1	ces		Gross	66580 lb
Out	02/06/2012 09:24:15		ces		Tare	26020 lb
					Net	40560 lb
					Tons	20.28

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.28	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

8

120327

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ MARCUS ON BEHALF OF CSX

CSX Approval #:

20120327 PSC-ASC

Transporter Signature:

Kevin Purdy

Truck #:

SPE-02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.58

CD

Authorized Signature

~~SPE~~ 2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928280

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2070

Original
Ticket# 1210665

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120327
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:33:25	Inside 1	ces		Gross	67340 lb
Out	02/06/2012 09:33:25		ces		Tare	28180 lb
					Net	39160 lb
					Tons	19.58

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth--	100	19.58	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120328

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

w/Affidavit on behalf of CSX

CSX Approval #:

20120328 PSK-ASC

Transporter Signature:

Truck #:

THOMAS-93

Section B **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 15.27

CD

Authorized Signature

2-10-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928283

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1210668

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120328
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:36:35	Inside 1	ces		Gross	53480 lb
Out	02/06/2012 09:36:35		ces		Tare	23040 lb
					Net	30440 lb
					Tons	15.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.22	Tons				MONROE-53

Total Tax
Total Ticket

Dri. 's Signature

403WM

120329

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: BY AGENT ON BEHALF OF CSX

CSX Approval #:

20120032 9 PSC-ALL

Transporter Signature:

Truck #:

SPE-04

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.48

CD

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928286

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210671

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120329
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:40:32	Inside 1	ces		Gross	64520 lb
Out	02/06/2012 09:40:32		ces		Tare	27560 lb
					Net	36960 lb
					Tons	18.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth	100	18.48	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120330

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
[signature] LJ ARCADIS ON BEHALF OF CSX

CSX Approval #:
8012 00330 PTK ALL

Transporter Signature:
[signature]

Truck #:
2053

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.37

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

ASTE MANAGEMENT

1928287

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210672

ustomer Name	WM NATL CSX 606414IN WM NATL	Carrier	STANGER
icket Date	02/06/2012	Vehicle#	2053
ayment Type	Credit Account	Container	
anual Ticket#		Driver	
auling Ticket#		Check#	
oute		Billing #	0001944
tate Waste Code		Gen EPA ID	
anifest	120330		
es ation			
O			
rofile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
enerator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:44:34	Inside 1	ces		Gross	68200 lb
Out	02/06/2012 09:44:34		ces		Tare	27460 lb
					Net	40740 lb
					Tons	20.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.37	Tons				MONROE-53

Total Tax
Total Ticket

ri. .'s Signature

Jeff Beusheem

403WM

120331

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 06 531 PJK-ASC

Transporter Signature:

Dan N Tayla

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.94

CD

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928291

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210676

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120331
Des ation
PO

Carrier Taylor Trucking Dump
Vehicle# t99 Volume
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/06/2012 09:48:40	Inside 1	ces		Gross	68880 lb
Out	02/06/2012 09:48:40		ces		Tare	27000 lb
					Net	41880 lb
					Tons	20.94

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.94	Tons				MONROE-53

Total Tax
Total Ticket

Dri. 's Signature Dan K Taylor

403WM

120332

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120332 PSK-ASC

Transporter Signature:

Truck #:

AT1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 27.79

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928299

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210606

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120332
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 10:17:25	Inside 1	ces		Gross	82580 lb
Out	02/06/2012 10:17:25		ces		Tare	27000 lb
					Net	55580 lb
					Tons	27.79

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sowaste Solid Oth-	100	27.79	Tons				MONROE-53

Total Tax
Total Ticket

Dri s Signature

403WM

120333

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120333 PSK-ASC

Transporter Signature:
BEN

Truck #:
A+ 1306

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 41.78

CD
Authorized Signature

7-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928300

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210688

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	02/06/2012	Vehicle#	1306
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120333		
Des ation			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 10:21:25	Inside 1	ces		Gross	70500 lb
Out	02/06/2012 10:21:25		ces		Tare	26940 lb
					Net	43560 lb
					Tons	21.78

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.78	Tons				MONROE-53

Total Tax
Total Ticket

Dri e Signature

403WM

6

120 334

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
ON BEHALF OF CSX

CSX Approval #:
20120033 4 OSR AS C

Transporter Signature:

Truck #:
H3

Section B DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.25

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928329

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210718

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120334
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	73880 lb
In	02/06/2012 11:50:23	Inside 1	ces		Tare	27380 lb
Out	02/06/2012 11:50:23		ces		Net	46500 lb
					Tons	23.25

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	23.25	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120335

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature: W/ AR Class ON BEHALF OF CSX

CSX Approval #:
20120335 PJK ASC

Transporter Signature:

Truck #:
H1

Section B **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.68

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928331

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210721

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120335
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 11:52:32	Inside 1	ces		Gross	69320 lb
Out	02/06/2012 11:52:32		ces		Tare	27960 lb
					Net	41360 lb
					Tons	20.68

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.68	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120336

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ARCHER ON BEHALF OF CSX

CSX Approval #:

2012 00 336 ATK-ARC

Transporter Signature:

Truck #:

~~AT 1307~~ SAE-03

Section B | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 18.77

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928339

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210732

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120336
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 12:17:29	Inside 1	ces		Gross	66340 lb
Out	02/06/2012 12:17:29		ces		Tare	28800 lb
					Net	37540 lb
					Tons	18.77

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth--	100	18.77	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

403WM

120337

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ APPROVAL ON BEHALF OF CSX

CSX Approval #:

20120033 7 PTKwAtc

Transporter Signature:

Truck #:

SPE-01

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 22.60

CD

Authorized Signature

2-6-17

Date (MM/DD/YY)

WASTE MANAGEMENT

1928340

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1210733

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120337
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 12:18:10	Inside 1	ces		Gross	73340 lb
Out	02/06/2012 12:18:10		ces		Tare	28140 lb
					Net	45200 lb
					Tons	22.60

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.60	Tons				MONROE-53

Total Tax
Total Ticket

ri\ s Signature

403WM

120338

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

205 T

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120338 ATK-ASC

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.52

CD
Authorized Signature

2-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928343

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210736

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Taylor Trucking Dump
Ticket Date	02/06/2012	Vehicle#	t96
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120338		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

	Time	Scale	Operator	Inbound		Volume
In	02/06/2012 12:23:14	Inside 1	ces		Gross	65060 lb
Out	02/06/2012 12:23:14		ces		Tare	26020 lb
					Net	39040 lb
					Tons	19.52

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- t00		19.52	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120339

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20T

Generator Signature:
w/ ARCADIS on Behalf of CSX

CSX Approval #:
2012200339 PJK-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.05

Authorized Signature

2-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928345

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210738

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120339
Des ation
20
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 12:32:05	Inside 1	ces		Gross	72280 lb
Out	02/06/2012 12:32:05		ces		Tare	28180 lb
					Net	44100 lb
					Tons	22.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.05	Tons				MONROE-53

Total Tax
Total Ticket

ri 's Signature

403WM

6

120340

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

CH ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012 05340 PJK-ARC

Transporter Signature:

Truck #:

THOMAS -99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.38

CD

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928346

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210739

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120340
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK STC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 12:34:19	Inside 1	ces		Gross	55800 lb
Out	02/06/2012 12:34:19		ces		Tare	23040 lb
					Net	32760 lb
					Tons	16.38

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		16.38	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

120341

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature:

W/ ARCHES ON BEHALF OF CSX

CSX Approval #:

2012 00 341 ATK-ARC

Transporter Signature:

Truck #:

SPE-04

Section C **Disposal Site Information**

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 19.97

CD

Authorized Signature

1-10-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928347

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210740

ustomer Name WM NATL CSX 606414IN WM NATL Carrier Speed:
icket Date 02/06/2012 Vehicle# 4 Volume
ayment Type Credit Account Container
anual Ticket# Driver
lauling Ticket# Check#
:oute Billing # 0001944
:tate Waste Code Gen EPA ID
lanifest 120341
)est .tion
'O
'rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
)enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
:n	02/06/2012 12:34:42	Inside 1	ces		Gross	67500 lb
Jut	02/06/2012 12:34:42		ces		Tare	27560 lb
					Net	39940 lb
					Tons	19.97

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		19.97	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

120342

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 T

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200342 PJK-ARC

Transporter Signature:

Jeff Bernsheimer

Truck #:

2053

Section B DISPOSAL INFORMATION

Site Name: Twin Bridges Landfill OPP Number: 32-2 Amount: 21.19

CD

Authorized Signature

2-2-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1923353

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2870

Original
Ticket# 1210746

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120342
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 12:42:30	Inside 1	ces		Gross	69840 lb
Out	02/06/2012 12:42:30		ces		Tare	27460 lb
					Net	42380 lb
					Tons	21.19

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.19	Tons				MONROE-53

Total Tax
Total Ticket

Dr. r's Signature

403WM

120343

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: W ARCADIS
ON BEHALF OF CSX

CSX Approval #:

2012 00 343 PJK-ASC

Transporter Signature:
Dan L Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.33

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

ASTE MANAGEMENT

1928351

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210744

ustomer Name WM NATL CSX 606414IN WM NATL Carrier Taylor Trucking Dump
icket Date 02/06/2012 Vehicle# t99 Volume
ayment Type Credit Account Container
anual Ticket# Driver
auling Ticket# Check#
oute Billing # 0001944
tate Waste Code Gen EPA ID
anifest 120343
est tion
O
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
n	02/06/2012 12:39:58	Inside 1	ces		Gross	71660 lb
ut	02/06/2012 12:39:58		ces		Tare	27000 lb
					Net	44660 lb
					Tons	22.33

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	22.33	Tons				MONROE-53

Total Tax
Total Ticket

ive s Signature Don N Taylor

03WM

120344

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

Generator Signature: WJ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012003 44 PJC-ASC

Transporter Signature:

Truck #:

AT 1306

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 26.57

CP

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928367

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210762

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120344
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 13:20:51	Inside 1	ces		Gross	79980 lb
Out	02/06/2012 13:20:51		ces		Tare	26940 lb
					Net	53040 lb
					Tons	26.52

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	26.52	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Dan L

403WM

#120345

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 ton

Generator Signature: w/ADDS
ON BEHALF OF CSX

CSX Approval #:

20120345 PIK-ASL

Transporter Signature:

Truck #:

A* 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.50

OD
Authorized Signature

7-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928369

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210764

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	02/06/2012	Vehicle#	1305
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120345		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound	Gross	74000 lb
In	02/06/2012 13:22:23	Inside 1	ceé		Tare	27000 lb
Out	02/06/2012 13:22:23		ces		Net	47000 lb
					Tons	23.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	23.50	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120346

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

Generator Signature: w/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20120003416 PTK-ASC

Transporter Signature:

Truck #:

SPE-03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.89

CD

Authorized Signature

7-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928420

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210821

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120346
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 16:58:27	Inside 1	ces		Gross	70580 lb
Out	02/06/2012 16:58:27		ces		Tare	28800 lb
					Net	41780 lb
					Tons	20.89

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.89	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120347

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200347 PTK- ASC

Transporter Signature:

Truck #:

SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.51

CD

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928398

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210799

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120347
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 15:14:34	Inside 1	ces		Gross	77160 lb
Out	02/06/2012 15:14:34		ces		Tare	28140 lb
					Net	49020 lb
					Tons	24.51

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Nonwaste Solid Oth-	100	24.51	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120348

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120034 PDC-ASC

Transporter Signature:

Truck #:

T-96

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.77

CD

Authorized Signature

7-6-17

Date (MM/DD/YY)

WASTE MANAGEMENT

1928400

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210801

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120348
Post ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Taylor Trucking Dump
Vehicle# t96
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

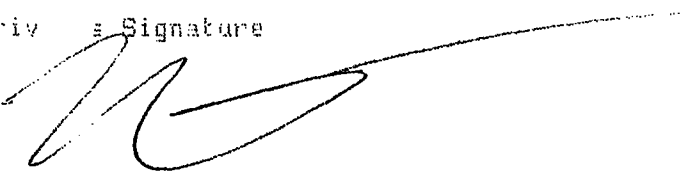
	Time	Scale	Operator	Inbound		
In	02/06/2012 15:18:30	Inside 1	ces		Gross	71560 lb
Out	02/06/2012 15:18:30		ces		Tare	26020 lb
					Net	45540 lb
					Tons	22.77

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.77	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



803WM

#120349

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ALOADS
ON BEHALF OF CSX

CSX Approval #:

20120034 PSK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.23

CD
Authorized Signature

1-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1923405

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1210806

Customer Name WM NATL CSX 606414IN WM NATL Carrier Speads
Ticket Date 02/06/2012 Vehicle# 4 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120349
Dest ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/06/2012 15:36:48	Inside 1	ces		Gross	68020 lb
Out	02/06/2012 15:36:48		ces		Tare	27560 lb
					Net	40460 lb
					Tons	20.23

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		20.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120350

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ABLAIDES
ON BEHALF OF CSX

CSX Approval #:

201200350 PSK-ASC

Transporter Signature:

B+D

Truck #:

Thomas - 99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 14.30

CD

Authorized Signature

2-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928406

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210007

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120350
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 15:40:17	Inside 1	ces		Gross	51640 lb
Out	02/06/2012 15:40:17		ces		Tare	23040 lb
					Net	28600 lb
					Tons	14.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	14.30	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120351

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20120035I PSK-ASC

Transporter Signature:

Dan K Taylor

Truck #:

T-99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.47

CD
Authorized Signature

7-6-12
Date (MM/DD/YY)

ASTE MANAGEMENT

1928403

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210809

ustomer Name	WM NATL CSX 606414IN WM NATL	Carrier	Taylor Trucking Dump
icket Date	02/06/2012	Vehicle#	t99 Volume
ayment Type	Credit Account	Container	
anual Ticket#		Driver	
auling Ticket#		Check#	
oute		Billing #	0001944
tate Waste Code		Gen EPA ID	
anifest	120351		
est tion			
0			
rofile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
enerator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

	Time	Scale	Operator	Inbound		
n	02/06/2012 15:42:56	Inside 1	ces		Gross	73940 lb
ut	02/06/2012 15:42:56		ces		Tare	27000 lb
					Net	46940 lb
					Tons	23.47

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	23.47	Tons				MONROE-53

Total Tax
Total Ticket

ive Signature Dan K Taylor

03WM

#120352

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature: w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120035 2 PSC-ASC

Transporter Signature:

Truck #:
2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.36

CD
Authorized Signature

2-6-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928412

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210813

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120352
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 15:51:27	Inside 1	ces		Gross	75180 lb
Out	02/06/2012 15:51:27		ces		Tare	27460 lb
					Net	48720 lb
					Tons	24.36

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		24.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Jim Bensheimer

403WM

#120353

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200353 PSK-ASC

Transporter Signature:

Truck #:

AT 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 27.84

CD

Authorized Signature

1-6-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928417

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1010010

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120353
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	92680 lb
In	02/06/2012 16:17:35	Inside 1	ces		Tare	27000 lb
Out	02/06/2012 16:17:35		ces		Net	55680 lb
					Tons	27.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	27.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120354

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature: W/ ARRANGES
ON BEHALF OF CSX

CSX Approval #:

2012003S4 PSK-ASC

Transporter Signature:

Dude

Truck #:

A* 1306

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.48

CD
Authorized Signature

2-16-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928418

Twin Bridges
133 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210819

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120357/4
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1306
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 16:18:34	Inside 1	ces		Gross	59900 lb
Out	02/06/2012 16:18:34		ces		Tare	26940 lb
					Net	32960 lb
					Tons	16.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.48	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

03WM

#120355

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 ton

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200355 PSK-NSC

Transporter Signature:

Truck #:

SPE-02

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.12

Authorized Signature

2-10-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928419

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210820

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/06/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120355
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/06/2012 16:25:24	Inside 1	ces		Gross	72420 lb
Out	02/06/2012 16:25:24		ces		Tare	28180 lb
					Net	44240 lb
					Tons	22.12

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.12	Tons				MONROE-53

Total Tax
Total Ticket

Dr: 's Signature

403WM

#120356

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ REQUEST ON BEHALF OF CSX

CSX Approval #:

20120035G PSK-BSC

Transporter Signature:

Truck #:

SPE-04

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 1,950

Authorized Signature

2/7/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928473

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210879

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120356
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 09:09:32	Inside 1	csm		Gross	66560 lb
Out	02/07/2012 09:09:32		csm		Tare	27560 lb
					Net	39000 lb
					Tons	19.50

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.50	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120357

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ARCADIS on BEHALF OF CSX

CSX Approval #:

20120357 PJK-ASC

Transporter Signature:

Truck #:

SPE-01

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 2,128

Authorized Signature

2/7/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928471

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210077

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120357
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speeds
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 09:05:59	Inside 1	csm		Gross	70700 lb
Out	02/07/2012 09:05:59		csm		Tare	28140 lb
					Net	42560 lb
					Tons	21.28

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.28	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120358

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ADDIES ON BEHALF OF CSX

CSX Approval #:
20120035S PSC-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.44

Authorized Signature

Date (MM/DD/YY)
2/7/12

WASTE MANAGEMENT

1928478

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210085

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads
Ticket Date	02/07/2012	Vehicle#	2
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120358		
De nation			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

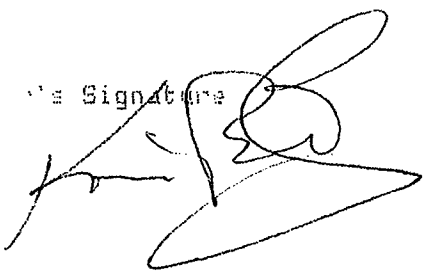
	Time	Scale	Operator	Inbound		
In	02/07/2012 09:14:55	Inside 1	csm		Gross	71060 lb
Out	02/07/2012 09:14:55		csm		Tare	28180 lb
					Net	42880 lb
					Tons	21.44

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.44	Tons				MONROE-53

Total Tax
Total Ticket

Dri ''s Signature



403WM

120359

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature:

W/ARLANDS ON BEHALF OF CSX

CSX Approval #:

201200359 PJK - ASC

Transporter Signature:

Jim Benskemen

Truck #:

2053

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 1866

Authorized Signature

2/7/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928482

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210883

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120359
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 09:28:39	Inside 1	csm		Gross	64780 lb
Out	02/07/2012 09:28:39		csm		Tare	27460 lb
					Net	37320 lb
					Tons	18.66

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	18.66	Tons				MONROE-53

Total Tax
Total Ticket

Dr. 's Signature

403WM

6

120360

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

30 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120360 PSC-ASC

Transporter Signature:

Truck #:

Thomas - 99

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16,76

Authorized Signature

2/7/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928483

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1810890

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	THOMAS TRUCK EXC
Ticket Date	02/07/2012	Vehicle#	99
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120360		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound	Gross	56560 lb*
In	02/07/2012 09:31:13	Inside 1	csm		Tare	23040 lb*
Out	02/07/2012 09:31:13		csm		Net	33520 lb
			* Manual Weight		Tons	16.76

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.76	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

#120361

WM
WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

Generator Signature:

w/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120036\ PSK-ASC

Transporter Signature:

RC

Truck #:

SPE-03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.75

Authorized Signature

3/7/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928481

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2978

Original
Ticket# 1210880

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120361
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speade
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 09:27:10	Inside 1	csm		Gross	74300 lb
Out	02/07/2012 09:27:10		csm		Tare	28800 lb
					Net	45500 lb
					Tons	22.75

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.75	Tons				MONROE-53

Total Tax
Total Ticket

iver Signature

#120362

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLOOPS ON BEHALF OF CSX

CSX Approval #:

20120036 2 PSC-ASC

Transporter Signature:

Truck #:

SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.28

Authorized Signature

2/7/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928523

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210939

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120362
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	76700 lb
In	02/07/2012 11:56:29	Inside 1	csm		Tare	28140 lb
Out	02/07/2012 11:56:29		csm		Net	48560 lb
					Tons	24.28

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.28	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120363

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARDOOS
ON BEHALF OF CSX

CSX Approval #:

20120036 3 PSK-ASC

Transporter Signature:

Truck #:

SPE-04

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 1944

Authorized Signature

2/9/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928526

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210942

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120363
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 12:01:06	Inside 1	csm		Gross	66440 lb
Out	02/07/2012 12:01:06		csm		Tare	27560 lb
					Net	38880 lb
					Tons	19.44

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		19.44	Tons				MONROE-53

Total Tax
Total Ticket

Dri ys Signature

403WM

6

120364

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120036H PRE-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.56

Authorized Signature

Date (MM/DD/YY) 2/7/12

WASTE MANAGEMENT

1928531

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210947

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120364
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Spoads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator
In	02/07/2012 12:12:33	Inside 1	csm
Out	02/07/2012 12:12:33		csm

Inbound

Gross	69300 lb
Tare	28180 lb
Net	41120 lb
Tons	20.56

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.56	Tons				MONROE--53

Total Tax
Total Ticket

Driver's Signature

403WM

#120365

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARLANDIS ON BEHALF OF CSX

CSX Approval #:

201200365 PSK-ASL

Transporter Signature:

Truck #:

SPE-03

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.45

Authorized Signature

Date (MM/DD/YY) 2/7/12

WASTE MANAGEMENT

1928535

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210951

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speade
Ticket Date	02/07/2012	Vehicle#	3
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Out		Billing #	0001944
Stat Waste Code		Gen EPA ID	
Manifest	120365		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound	Gross	77700 lb
In	02/07/2012 12:26:50	Inside 1	csm		Tare	28800 lb
Out	02/07/2012 12:26:50		csm		Net	48900 lb
					Tons	24.45

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.45	Tons				MONROE-53

Total Tax
Total Ticket

120366

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ DRAFTS

ON BEHALF OF CSX

CSX Approval #:

201200366 PSK-ASC

Transporter Signature:

Truck #:

2053

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.01

Authorized Signature

2/7/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928536

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210952

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120366
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 12:28:09	Inside 1	csm		Gross	75480 lb
Out	02/07/2012 12:28:08		csm		Tare	27460 lb
					Net	48020 lb
					Tons	24.01

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.01	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120367

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120367 PSK-ASC

Transporter Signature:

Truck #:

Thomas - 99

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 19.74

Authorized Signature

2/7/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928537

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1210953

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120367
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 12:29:11	Inside 1	csm		Gross	62520 lb
Out	02/07/2012 12:29:11		csm		Tare	23040 lb
					Net	39480 lb
					Tons	19.74

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.74	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

#120368

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
20120036B PSK-ASC

Transporter Signature:

Truck #:
SPE-01

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 20.73

CD
Authorized Signature

2-7-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928586

[illegible]
[illegible]
Danville, [illegible]
Ph: 317-745-2878

Original
Ticket# 121010

Customer Name WM NATL CSX 606414IN WM NATL Carrier [illegible]
Ticket Date 02/07/2012 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120358
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound	Gross	69600 lb
In	02/07/2012 15:09:33	Inside 1	ces		Tare	28140 lb
Out	02/07/2012 15:09:39		ces		Net	41460 lb
					Tons	20.73

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	20.73	Tons				MONROE-53

Total Tax
Total Ticket

[illegible] s Signature

403WM

#120369

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ARLANIS
ON BEHALF OF CSX

CSX Approval #:

201200369 PSK-ASL

Transporter Signature:

Truck #:

SPE-02

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.33

CD
Authorized Signature

2-7-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928591

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211016

Customer Name WM NATL CSX 606414IN WM NATL. Carrier Speads
Ticket Date 02/07/2012 Vehicle# 2 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120369
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/07/2012 15:21:04	Inside 1	ces		Gross	70840 lb
Out	02/07/2012 15:21:04		ces		Tare	28180 lb
					Net	42660 lb
					Tons	21.33

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	21.33	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120370

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARLANDS ON BEHALF OF CSX

CSX Approval #:
201200370 PSK-ASC

Transporter Signature:

Truck #:
SPE-03

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.08

CD
Authorized Signature

2-7-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928593

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2073

Original
Ticket# 1211010

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120370
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 15:27:07	Inside 1	ces		Gross	66960 lb
Out	02/07/2012 15:27:07		ces		Tare	28800 lb
					Net	38160 lb
					Tons	19.08

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 · Spwaste Solid Oth- 100		19.08	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120371

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ARLADES

ON BEHALF OF CSX

CSX Approval #:

201300371 PSK-ASL

Transporter Signature:

Truck #:

2053

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19.79

CD

Authorized Signature

7.7.17

Date (MM/DD/YY)

WASTE MANAGEMENT

1928592

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 121017

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120371
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/07/2012 15:26:33	Inside 1	ces		Gross	67040 lb
Out	02/07/2012 15:26:33		ces		Tare	27460 lb
					Net	39580 lb
					Tons	19.79

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	19.79	Tons				MONROE-53

Total Tax
Total Ticket

City Signature

403WM

120372

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A | **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ADDENDUMS ON BEHALF OF CSX

CSX Approval #:

201200372 PSK-ASC

Transporter Signature:

Truck #:

Thomas - 99

Section C | **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 17.98

CD

Authorized Signature

2-7-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928595

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211020

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/07/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120372
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	59000 lb
In	02/07/2012 15:30:03	Inside 1	ces		Tare	23040 lb
Out	02/07/2012 15:30:03		ces		Net	35960 lb
					Tons	17.98

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.98	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120373

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120037B PJK-ABC

Transporter Signature:

Truck #:

SPE-02

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.54

Authorized Signature

2/8/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928662

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211089

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120373
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speade
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 09:23:09	Inside 1	csm		Gross	73260 lb
Out	02/08/2012 09:23:09		csm		Tare	28180 lb
					Net	45080 lb
					Tons	22.54

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	22.54	Tons				MONROE--53

Total Tax
Total Ticket

Driver's Signature

403WM

120374

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ARCADIS ON BEHALF OF CSX

CSX Approval #:

20120037 4 PSK-AGC

Transporter Signature:

Truck #:

SPE-03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 19,26

Authorized Signature

2/8/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928660

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211087

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120374
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 09:21:00	Inside 1	csm		Gross	67320 lb
Out	02/08/2012 09:21:00		csm		Tare	28900 lb
					Net	38520 lb
					Tons	19.26

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	19.26	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM

#120375

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS
ON BEHALF OF CSX

CSX Approval #:

20\200375 PSVC - ASC

Transporter Signature:

Truck #:

2053

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.39

Authorized Signature

2/8/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928661

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211088

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120375
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 09:21:37	Inside 1	csm		Gross	68240 lb
Out	02/08/2012 09:21:37		csm		Tare	27460 lb
					Net	40780 lb
					Tons	20.39

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		20.39	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120376

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLOOS ON BEHALF OF CSX

CSX Approval #:

2012200376 PSK - ASL

Transporter Signature:

Truck #:

H-3

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 22.23

CJ

Authorized Signature

2-8-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928667

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211094

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120376
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 09:43:51	Inside 1	ces		Gross	71840 lb
Out	02/08/2012 09:43:51		ces		Tare	27380 lb
					Net	44460 lb
					Tons	22.23

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sgwaste Solid Othr	100	22.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120377

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200377 PSC-ASC

Transporter Signature:

Truck #:

AT 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.93

Authorized Signature

2/8/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928690

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211116

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120377
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1305
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 11:05:20	Inside 1	csm		Gross	74860 lb
Out	02/08/2012 11:05:20		csm		Tare	27000 lb
					Net	47860 lb
					Tons	23.93

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.93	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

David Adams

403WM

6

120378

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200378 PSVC-ASC

Transporter Signature:

Truck #:
A+ 1313

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 24.24

Authorized Signature

2/8/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928694

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211126

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120378
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Checkä
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 11:33:41	Inside 1	csm		Gross	74860 lb
Out	02/08/2012 11:33:41		csm		Tare	26380 lb
					Net	48480 lb
					Tons	24.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	24.24	Tons				MONROE-53

Total Tax
Total Ticket

Driv s Signature

403WM

120379

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ARCADIS ON BEHALF OF CSX

CSX Approval #:
201200379 PJK-ASC

Transporter Signature:

Truck #:
Thomas - 99

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 2226

Authorized Signature

Date (MM/DD/YY) 2/8/12

WASTE MANAGEMENT

1928699

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211130

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type' Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120379
Des' ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 11:44:33	Inside 1	csm		Gross	67560 lb
Out	02/08/2012 11:44:33		csm		Tare	23040 lb
					Net	44520 lb
					Tons	22.26

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	22.26	Tons				MONROE-53

Total Tax
Total Ticket

ri s Signature

403WM

#120380

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ALADDS ON BEHALF OF CSX

CSX Approval #:

20120380 PSK - ASC

Transporter Signature:

Truck #:

2053

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.55

Authorized Signature

2/8/12
Date (MM/DD/YY)

ASTE MANAGEMENT

1928711

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211143

ustomer Name WM NATL CSX 606414IN WM NATL
icket Date 02/08/2012
ayment Type Credit Account
anual Ticket#
auling Ticket#
oute
tate Waste Code
anifest 120380
est tion
D
rofile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
enerator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
n	02/08/2012 12:19:03	Inside 1	csm		Gross	74560 lb
ut	02/08/2012 12:19:03		csm		Tare	27460 lb
					Net	47100 lb
					Tons	23.55

omments

roduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Sowaste Solid Oth-	100	23.55	Tons				MONROE-53

Total Tax
Total Ticket

iv : Signature

103WM

#120381

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARVINDS ON BEHALF OF CSX

CSX Approval #:

201200381 BTK-ASC

Transporter Signature:

Truck #:

H-3

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.18

Authorized Signature

Date (MM/DD/YY) 2/8/12

WASTE MANAGEMENT

1928719

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211152

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120381
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 12:43:32	Inside 1	csm		Gross	73740 lb
Out	02/08/2012 12:43:32		csm		Tare	27380 lb
					Net	46360 lb
					Tons	23.18

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		23.18	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120382

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature: W/ARCADIS

Wesley Lee ON BEHALF OF CSX

CSX Approval #:

20120038 2 PSC-ASC

Transporter Signature:

Truck #:

AT 1309

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 25.28

CD
Authorized Signature

2-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928728

[illegible]
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211162

Customer Name WM NATL CSX 606414IN WM NATL Carrier APlus dump
Ticket Date 02/08/2012 Vehicle# 1309 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120382
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/08/2012 13:19:12	Inside 1	ces		Gross	76220 lb
Out	02/08/2012 13:19:12		ces		Tare	25660 lb
					Net	50560 lb
					Tons	25.28

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	25.28	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

03WM

#120383

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCODES ON BEHALF OF CSX

CSX Approval #:

201300383 PSK-ASC

Transporter Signature:

Truck #:

H-31

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 23.28

Authorized Signature

2-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928733

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211167

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120383
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 13:31:01	Inside 1	ces		Gross	74520 lb
Out	02/08/2012 13:31:01		ces		Tare	27960 lb
					Net	46560 lb
					Tons	23.28

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	23.28	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120384

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ALCAIDS ON BEHALF OF CSX

CSX Approval #:

2012003844 PJK-ASC

Transporter Signature:

Truck #:

A+ 1305

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 18.96

CD
Authorized Signature

7-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928752

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211191

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	APlus dump
Ticket Date	02/08/2012	Vehicle#	1305
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	120384		
De nation			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 14:40:15	Inside 1	ces		Gross	64920 lb
Out	02/08/2012 14:40:15		ces		Tare	27000 lb
					Net	37920 lb
					Tons	18.96

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Sowaste Solid Oth-	100	18.96	Tons				MONROE-53

Total Tax
Total Ticket

Dr. ...s Signature

David Adam

403WM

120385

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLANDS ON BEHALF OF CSX

CSX Approval #:

2012000385 PSC-ASC

Transporter Signature:

Truck #:

AT 1313

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.32

CS
Authorized Signature

7-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928753

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211192

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120385
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	59020 lb
In	02/08/2012 14:40:56	Inside 1	ces		Tare	26380 lb
Out	02/08/2012 14:40:56		ces		Net	32640 lb
					Tons	16.32

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.32	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

6

120386

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

w/ REVISIONS
ON BEHALF OF CSX

CSX Approval #:

2012003886 PSC-ASC

Transporter Signature:

Truck #:

Thomas - 99

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 16.87

CD

Authorized Signature

7-8-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928754

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211193

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120386
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier THOMAS TRUCK EXC
Vehicle# 99
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 14:55:19	Inside 1	ces		Gross	56780 lb
Out	02/08/2012 14:55:19		ces		Tare	23040 lb
					Net	33740 lb
					Tons	16.87

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Othr	000	16.97	Tons				MONROE-53

Total Tax
Total Ticket

Driver Signature

403WM

#120387

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLADES
ON BEHALF OF CSX

CSX Approval #:

2012000387 PSC-ASC

Transporter Signature:

Truck #:

2053

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 21.86

CD

Authorized Signature

2-8-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928758

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1311197

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120387
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier STANGER
Vehicle# 2053
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 15:16:44	Inside 1	ces		Gross	71180 lb
Out	02/08/2012 15:16:44		ces		Tare	27460 lb
					Net	43720 lb
					Tons	21.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.86	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120388

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TONS

Generator Signature:
W/ARLADIS ON BEHALF OF CSX

CSX Approval #:
201200388 PSK-ASC

Transporter Signature:

Truck #:
H-3

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.33

CD
Authorized Signature

2-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928763

Twin Bridges
143 Twin Bridges Road
Danville, IN 46122
Ph: 317 745-2370

Original
Ticket# 1928763

Customer Name SN NATL CSX 6064141N WM NATL Carrier Dunlap & Sayers
Ticket Date 02/08/2012 Vehicle# 3 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001944
State Waste Code Gen EPA ID
Manifest 120388
Destination
PO
Profile 6064141N (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/08/2012 15:52:43	Inside 1	ces		Gross	63040 lb
Out	02/08/2012 15:52:43		ces		Tare	27380 lb
					Net	35660 lb
					Tons	20.33

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	100	20.33	Tons				MONROE-53

Total Tax
Total Ticket

Dri 's Signature

403WM

#120389

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TONS

Generator Signature:
W/ADDITIONS ON BEHALF OF CSX

CSX Approval #:
201200389 PSK-ASC

Transporter Signature:

Truck #:
A+ 1309

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.79

CD
Authorized Signature

2-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928766

Original
Ticket# 121206

Customer Name WM NATL CSX 506414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120389
Destination
PO
Profile 506414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier
Vehicle# 1309
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator
In	02/08/2012 16:32:02	Inside 1	ces
Out	02/08/2012 16:32:02		ces

Inbound
Gross 57240 lb
Tare 25650 lb
Net 31500 lb
Tons 15.79

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.79	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

#120390

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
w/ ARLADES ON BEHALF OF CSX

CSX Approval #:
201200390 PJK-ASC

Transporter Signature:

Truck #:
H-1

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 15.67

CS
Authorized Signature

2-8-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928765

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211205

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/08/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120390
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Huntley Excavating
Vehicle# 1
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/08/2012 16:27:59	Inside 1	ces		Gross	59300 lb
Out	02/08/2012 16:27:59		ces		Tare	27960 lb
					Net	31340 lb
					Tons	15.67

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	15.67	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM

120391

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ORDERS ON BEHALF OF CSX

CSX Approval #:

201200391 PJK-ASC

Transporter Signature:

Truck #:

SPE-02

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 17.97

Authorized Signature

2/9/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928814

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211260

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/09/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120391
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/09/2012 09:38:19	Inside 1	csm		Gross	64120 lb
Out	02/09/2012 09:38:19		csm		Tare	28180 lb
					Net	35940 lb
					Tons	17.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.97	Tons				MONROE-53

Total Tax
Total Ticket

Ori Signature

403WM

6

#120392

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARCADIS ON BEHALF OF CSX

CSX Approval #:

201200392 PSK-ASC

Transporter Signature:

Truck #:

SPE-03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 14.80

Authorized Signature

2/9/12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928813

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211259

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/09/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120392
Des ation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/09/2012 09:36:51	Inside 1	csm		Gross	58400 lb
Out	02/09/2012 09:36:51		csm		Tare	28800 lb
					Net	29600 lb
					Tons	14.80

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.80	Tons				MONROE-53

Total Tax
Total Ticket

riv s Signature

403WM

#120393

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date: 12/02/2012
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:
CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:
Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:
PSCC 1-800-232-0144

Waste Name:
Excavated impacted soils, stone and debris

Est. Volume:
20 TON

Generator Signature:
W/RECORDS ON BEHALF OF CSX

CSX Approval #:
20120393 PSK-ASC

Transporter Signature:

Truck #:
SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 21.10

Authorized Signature

2/9/12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928867

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1211319

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 02/09/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120393
De nation
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	70380 lb
In	02/09/2012 12:41:24	Inside 1	csm		Tare	28180 lb
Out	02/09/2012 12:41:24		csm		Net	42200 lb
					Tons	21.10

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		21.10	Tons				MONROE-53

Total Tax
Total Ticket

Dr. ' s Signature

403WM

120394

WASTE MANAGEMENT

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A **Generator Information**

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ARLANIS ON BEHALF OF CSX

CSX Approval #:

201200394 PJK-ASC

Transporter Signature:

Truck #:

SPE-03

Section C **DISPOSAL SITE INFORMATION**

Site Name: Twin Bridges Landfill

OPP Number: 32-2

Amount: 20.41

CD

Authorized Signature

2-9-12

Date (MM/DD/YY)

WASTE MANAGEMENT

1928881

[illegible]

Original
Ticket# 1211334

Customer Name WM NATL CSX 806414IN WM NATL
Ticket Date 02/09/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 120394
De nation
PO
Profile 806414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speade
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	02/09/2012 13:28:42	Inside 1	ces		Gross	60620 lb
Out	02/09/2012 13:28:42		ces		Tare	20000 lb
					Net	40820 lb
					Tons	20.41

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.41	Tons				MONROE-53

Total Tax
Total Ticket

Dri[illegible] Signature

403WM

#120395

Industrial Waste Disposal Manifest
Profile Number: 606414IN_
Expiration Date:_12/02/2012_____
ALL SOLIDFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc
IN, Creosote, Bloomington R9415829

Technical Contact:

Paul Kurzanski

Street Address:
240 Country Club Drive

County:
Monroe

City:
Bloomington

State:
IN

Zip Code:
47403

Emergency Response Phone Number:

PSCC 1-800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

Generator Signature:

W/ ARCADIS ON BEHALF OF CSX

CSX Approval #:

2012200395 CSX-ASC

Transporter Signature:

Truck #:

SPE-02

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges Landfill **OPP Number:** 32-2 **Amount:** 24.11

CD
Authorized Signature

2-9-12
Date (MM/DD/YY)

WASTE MANAGEMENT

1928911

Twin Bridges
121 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2078

Original
Ticket# 1211360

Customer Name WM NATL CSX 60641-IN NM NATL Carrier Spread
Ticket Date 02/09/2012 Vehicle# 2 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 40001944
State Waste Code Gen EPA ID
Manifest 120395
Description
PO
Profile 60641-IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON-CSX TRANS-BLOOMINGTON

	Time	Scale	Operator	Inbound		
In	02/09/2012 15:16:24	Inside 1	[illegible]		Gross	76100 lb
Out	02/09/2012 15:40:34.		[illegible]		Tare	30180 lb
					Net	45920 lb
					Tons	24.11

Comments

Product	LDS	Qty	UOM	Rate	Tax	Amount	Origin
1 Sprwaste Solid Ush- 140		24.11	Tons				MONROE-GS

Total Tax
Total Ticket

Dri 's Signature

403WM

6

#130025

2013 0984 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est, Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 1584

CD

Authorized Signature

10-11-13

Date (MM/DD/YY)

SPEADS #3

WASTE MANAGEMENT

8251430

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1307317

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/11/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130025
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 3
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/11/2013 10:18:42	Inside 1	ces		Gross	60580 lb
Out	10/11/2013 13:20:25	Inside 1	csm		Tare	28900 lb
					Net	31680 lb
					Tons	15.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	15.84	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130026
2013 09735 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est, Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 15.86

CD
Authorized Signature

10-14-13
Date (MM/DD/YY)

SPEADS #3

WASTE MANAGEMENT

8251575

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1307562

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads
Ticket Date	10/14/2013	Vehicle#	3
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001944
State Waste Code		Gen EPA ID	
Manifest	130026		
Destination			
PO			
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)		
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON		

Volume

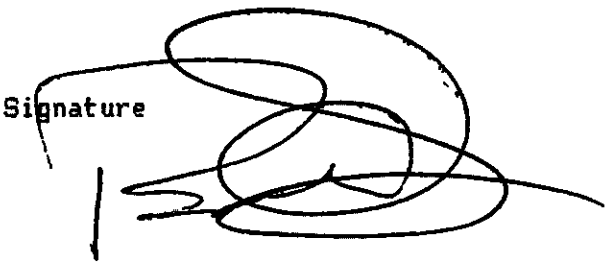
	Time	Scale	Operator	Inbound		
In	10/14/2013 11:15:36	Inside 1	ces		Gross	60620 lb
Out	10/14/2013 11:15:36		ces		Tare	28900 lb
					Net	31720 lb
					Tons	15.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		15.86	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

#130027
2013 09 736 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 14.30

CD
Authorized Signature

10-14-13
Date (MM/DD/YY)

SPEADS #4

WASTE MANAGEMENT

8251583

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1307563

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads		
Ticket Date	10/14/2013	Vehicle#	4	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	130027				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

	Time	Scale	Operator	Inbound		
In	10/14/2013 11:17:19	Inside 1	ces		Gross	56520 lb
Out	10/14/2013 11:33:45	Inside 1	ces		Tare	27920 lb
					Net	28600 lb
					Tons	14.30

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.30	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130028

20130973? PD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est, Volume:

20 tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 17.78

CD

Authorized Signature

10-15-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8251816

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1307873

Customer Name	WM NATL CSX 606414IN WM NATL	Carrier	Speads		
Ticket Date	10/15/2013	Vehicle#	3	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001944		
State Waste Code		Gen EPA ID			
Manifest	130028				
Destination					
PO					
Profile	606414IN (EXCAVATED SOILS, STONE AND DEBRIS)				
Generator	141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON				

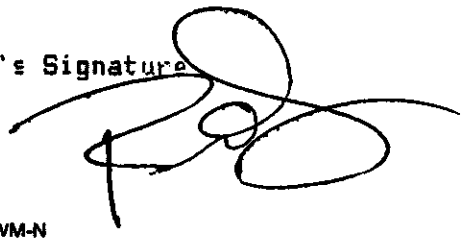
	Time	Scale	Operator	Inbound		
In	10/15/2013 14:45:45	Inside 1	ces		Gross	64460 lb
Out	10/15/2013 14:45:45		ces		Tare	28900 lb
					Net	35560 lb
					Tons	17.78

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.78	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

130029

2013 09738 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est, Volume: 20 tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32.2 **Amount:** 19.22

CD

Authorized Signature

10-16-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8251932

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308013

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/16/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130029
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/16/2013 11:28:18	Inside 1	ces		Gross	66000 lb
Out	10/16/2013 11:48:59	Inside 1	ces		Tare	27560 lb
					Net	38440 lb
					Tons	19.22

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.22	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130030
201309739 DD-Asc

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 19.97

CD

Authorized Signature

10-16-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8251978

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308095

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/16/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130030
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/16/2013 15:51:50	Inside 1	ces		Gross	65300 lb
Out	10/16/2013 16:06:43	Inside 1	ces		Tare	25360 lb
					Net	39940 lb
					Tons	19.97

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.97	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130031
20130974000-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 21.00

CD
Authorized Signature

10-18-13
Date (MM/DD/YY)

WASTE MANAGEMENT

8539297

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2978

Original
Ticket# 1308386

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/18/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 13003
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/18/2013 11:06:52	Inside 1	ces		Gross	69560 lb
Out	10/18/2013 11:06:52		ces		Tare	27560 lb
					Net	42000 lb
					Tons	21.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.00	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Clinton

403WM-N

130032

20130974 DD - ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TONS

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 19.41

CD

Authorized Signature

10-18-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539320

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308415

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/18/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130032
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/18/2013 12:25:18	Inside 1	ces		Gross	64180 lb
Out	10/18/2013 12:25:18		ces		Tare	25360 lb
					Net	38820 lb
					Tons	19.41

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.41	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130033
201309742 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TOU

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 17.23

CD

Authorized Signature

10-18-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539330

Twin Bridges
123 Twin Bridges Road
Danville, IN. 46122
Ph: 317-745-2878

Original
Ticket# 1308423

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/18/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130033
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1316
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/18/2013 12:56:38	Outside 1	ces		Gross	61500 lb
Out	10/18/2013 13:06:31	Inside 1	ces		Tare	27040 lb
					Net	34460 lb
					Tons	17.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		17.23	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130034

20130974 3 DD-AS

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 18.86

Authorized Signature

10-18-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539368

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308484

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/18/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130034
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/18/2013 15:21:06	Inside 1	ces		Gross	65200 lb
Out	10/18/2013 15:21:06		ces		Tare	27560 lb
					Net	37720 lb
					Tons	18.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18.86	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

130035
20130974 4 DD-AS

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 16.89

CD

Authorized Signature

10.18.13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539370

Twin Bridges
123 Twin Bridges Road
Danville, IN. 46122
Ph: 317-745-2878

Original
Ticket# 1300488

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/18/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130035
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1317
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/18/2013 15:44:29	Inside 1	ces		Gross	59140 lb
Out	10/18/2013 15:44:28		ces		Tare	25360 lb
					Net	33780 lb
					Tons	16.89

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.89	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130036

20130945 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 TON

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 11.95

CS

Authorized Signature

10/21/13

Date (MM/DD/YY)

SPEARS #2

WASTE MANAGEMENT

8539485

Twin Bridges
123 Twin Bridges Road
Danville, IN. 46122
Ph: 317-745-2878

Original
Ticket# 1308618

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/21/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130036
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/21/2013 11:14:18	Inside 1	csm		Gross	51460 lb
Out	10/21/2013 11:14:18		csm		Tare	27560 lb
					Net	23900 lb
					Tons	11.95

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	11.95	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

#130037

2013 09746 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 12.26

Authorized Signature

10/21/13

Date (MM/DD/YY)

AT 130

WASTE MANAGEMENT

8539492

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2879

Original
Ticket# 1308625

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/21/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130037
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/21/2013 12:00:15	Inside 1	csm		Gross	52960 lb
Out	10/21/2013 12:00:15		csm		Tare	28340 lb
					Net	24520 lb
					Tons	12.26

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	12.26	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WMMN

130038
201309747 OD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 22-13

CS

Authorized Signature

10-21-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539541

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308698

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/21/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130038
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/21/2013 15:32:32	Inside 1	ces		Gross	71820 lb
Out	10/21/2013 15:32:32		ces		Tare	27560 lb
					Net	44260 lb
					Tons	22.13

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1) Spwaste Solid Oth-	100	22.13	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

130039
20130974B DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 14.02

CD

Authorized Signature

10-21-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539547

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308704

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/21/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130039
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1310
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/21/2013 15:59:00	Inside 1	ces		Gross	53720 lb
Out	10/21/2013 15:59:00		ces		Tare	25680 lb
					Net	28040 lb
					Tons	14.02

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth--	100	14.02	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

130040
20130974900-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20 Tons

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 20.91

CD

Authorized Signature

10-22-13

Date (MM/DD/YY)

WASTE MANAGEMENT

8539636

Twin Bridges
123 Twin Bridges Road
Danville, IN. 46122
Ph: 317-745-2979

Original
Ticket# 1300815

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130040
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/22/2013 10:58:38	Inside 1	ces		Gross	69380 lb
Out	10/22/2013 10:59:38		ces		Tare	27560 lb
					Net	41820 lb
					Tons	20.91

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- 100		20.91	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

130041
20130750 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 20.36

CD
Authorized Signature

10-22-13
Date (MM/DD/YY)

WASTE MANAGEMENT

8539654

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1308933

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130041
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1322
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/22/2013 11:37:36	Outside 1	ces		Gross	66200 lb
Out	10/22/2013 12:00:34	Inside 1	ces		Tare	25480 lb
					Net	40720 lb
					Tons	20.36

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Sowaste Solid Oth-	100	20.36	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130042

20130975 1 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:	**Technical Contact:**	
CSX Transportation, Inc.	**Daniel Dyer**	
Waste Location: **Street Address:**	**County:**	
240 Country Club Drive	**Monroe**	
City:	**State:**	**Zip Code:**
Bloomington	IN	**47403**

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:	**Est. Volume:**
Excavated impacted soils, stone and debris	

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 116.89

CD — **Authorized Signature**

10-22-13 — **Date (MM/DD/YY)**

A+ 1313

WASTE MANAGEMENT

8539676

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 130042

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130042
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1313
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/22/2013 13:07:49	Inside	ces		Gross	60200 lb
Out	10/22/2013 13:23:11	Inside	ces		Tare	26420 lb
					Net	33780 lb
					Tons	16.89

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.89	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Jeremy D Neill

403WM-N

#130043

20130 9752 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 20.51

CD

Authorized Signature

10-22-13

Date (MM/DD/YY)

SPEARS #7

WASTE MANAGEMENT

8539690

Twin Bridges
122 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1300857

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130043
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/22/2013 14:29:1E	Inside 1	ces		Gross	68580 lb
Out	10/22/2013 14:29:16		ces		Tare	27560 lb
					Net	41020 lb
					Tons	20.51

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1) Spwaste Solid Oth-	100	20.51	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

#130044
20130753 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 19.81

DD

Authorized Signature

10. 22 -13

Date (MM/DD/YY)

AT 1322

WASTE MANAGEMENT

8539711

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1302934

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130044
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier APlus dump
Vehicle# 1322
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/22/2013 15:48:34	Inside 1	ces		Gross	65100 lb
Out	10/22/2013 15:48:34		ces		Tare	25480 lb
					Net	39620 lb
					Tons	19.81

Comments

WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1) Sowaste Solid Oth- 100		19.81	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130045
20130754 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 116.82

CD
Authorized Signature

10-23-13
Date (MM/DD/YY)

#y43

WASTE MANAGEMENT

8539815

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309043

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130045
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Young Trucking dump
Vehicle# 43
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound	Gross	61200 lb
In	10/23/2013 10:20:36	Inside 1	ces		Tare	27560 lb
Out	10/23/2013 10:33:43	Inside 1	ces		Net	33640 lb
					Tons	16.82

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	16.82	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Bill Bennett

403WM-N

#130096

20130945500-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 17.90

Authorized Signature

10/23/13

Date (MM/DD/YY)

SPEARS #2

WASTE MANAGEMENT

8539838

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309077

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130047
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/23/2013 11:39:06	Inside 1	csm		Gross	63360 lb
Out	10/23/2013 11:39:06		csm		Tare	27560 lb
					Net	35800 lb
					Tons	17.90

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 : Spwaste Solid Oth-	100	17.90	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Chastain

403WM-N

#130047

20130975G DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State: IN

Zip Code: 47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 17.65

Authorized Signature

Date (MM/DD/YY) 10/23/13

SPRAS #4

WASTE MANAGEMENT

8539836

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309074

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130047
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

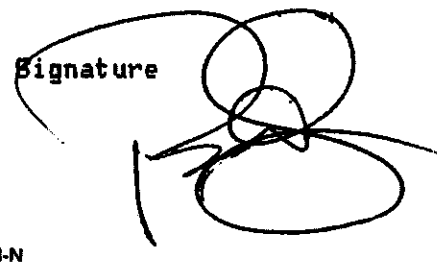
	Time	Scale	Operator	Inbound		
In	10/23/2013 11:35:17	Inside 1	csm		Gross	63220 lb
Out	10/23/2013 11:35:17		csm		Tare	27920 lb
					Net	35300 lb
					Tons	17.65

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	17.65	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature



403WM-N

#130048
2513097S7 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A — Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C — DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 20.94

CS

Authorized Signature

10-23-13

Date (MM/DD/YY)

SPEADS #4

WASTE MANAGEMENT

8539892

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309145

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130048
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/23/2013 15:18:01	Inside 1	ces		Gross	69800 lb
Out	10/23/2013 15:18:01		ces		Tare	27920 lb
					Net	41880 lb
					Tons	20.94

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.94	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

#130049
2013 09758 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 19.80

CD

Authorized Signature

10-23-13

Date (MM/DD/YY)

5 PEADS #2

WASTE MANAGEMENT

8539897

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309153

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130049
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/23/2013 15:47:05	Inside 1	ces		Gross	67160 lb
Out	10/23/2013 15:47:05		ces		Tare	27560 lb
					Net	39600 lb
					Tons	19.80

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	19.80	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Austin

403WM-N

#130050
2013097759 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 14.87

CD

Authorized Signature

10-24-13

Date (MM/DD/YY)

SPEARS #4

WASTE MANAGEMENT

8539980

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309255

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/24/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130050
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/24/2013 10:21:27	Inside 1	ces		Gross	57660 lb
Out	10/24/2013 10:21:27		ces		Tare	27920 lb
					Net	29740 lb
					Tons	14.87

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.87	Tons				MONROE-53

Driver's Signature

Total Tax
Total Ticket

403WM-N

#130051

2013 09760 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 13.94

CS

Authorized Signature

10.24.13

Date (MM/DD/YY)

SPCAAS #2

WASTE MANAGEMENT

8540062

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309377

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/24/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130051
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 2
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/24/2013 16:28:21	Inside 1	ces		Gross	55440 lb
Out	10/24/2013 16:28:21		ces		Tare	27560 lb
					Net	27880 lb
					Tons	13.94

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth-	100	13.94	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature Michael Christian

403WM-N

#130052
2013 09761 DD-ASC

Industrial Waste Disposal Manifest

Profile Number: 606414IN

Expiration Date: 9/20/2014

ALL SOLIDIFICATION MUST BE SCHEDULED 24 HOURS IN ADVANCE

Section A Generator Information

Generator Name:

CSX Transportation, Inc.

Technical Contact:

Daniel Dyer

Waste Location:
Street Address:

240 Country Club Drive

County:

Monroe

City:

Bloomington

State:

IN

Zip Code:

47403

Emergency Response Phone Number:

PSCC 800-232-0144

Waste Name:

Excavated impacted soils, stone and debris

Est. Volume:

20T

NO Generator Signature Required

Section C DISPOSAL SITE INFORMATION

Site Name: Twin Bridges RDF **OPP Number:** 32-2 **Amount:** 2017

CD

Authorized Signature

10-24-13

Date (MM/DD/YY)

SPCAS #4

WASTE MANAGEMENT

8540049

Twin Bridges
123 Twin Bridges Road
Danville, IN, 46122
Ph: 317-745-2878

Original
Ticket# 1309358

Customer Name WM NATL CSX 606414IN WM NATL
Ticket Date 10/24/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 130052
Destination
PO
Profile 606414IN (EXCAVATED SOILS, STONE AND DEBRIS)
Generator 141-CSX TRANS BLOOMINGTON CSX TRANS-BLOOMINGTON

Carrier Speads
Vehicle# 4
Container
Driver
Check#
Billing # 0001944
Gen EPA ID

Volume

	Time	Scale	Operator	Inbound		
In	10/24/2013 14:43:27	Inside 1	ces		Gross	68260 lb
Out	10/24/2013 14:43:27		ces		Tare	27920 lb
					Net	40340 lb
					Tons	20.17

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.17	Tons				MONROE-53

Total Tax
Total Ticket

Driver's Signature

403WM-N

Used Tires

ATTENTION SHIPPERS!

FREIGHT CHARGES ARE RPEPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Page 1 of 1

Alliance Service Group, LLC
(Name of Carrier) (SCAC)

#130009

TO:
Consignee Grooms Tire Recycling

Street 1315 S Drover Street

City Indianapolis State Indiana Zip Code 46221

FROM:
Shipper CSX Transportation, Inc.

Street 240 Country Club Drive

City Bloomington State Indiana Zip Code 47403

24 hr Emergency Contact Tel. No. 1-800-232-0144

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Proper Shipping Name, UN or NA Number, Packing Group OR Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 trailer load		NON RCRA, NON DOT USED TIRES FOR RECYCLING	~11 used tires			
		201305670PJK-ASC				

PLACARDS TENDERED: YES ☐ NO ☒

REMIT C.O.D. TO:
ADDRESS

Note – (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____

(2) Where the applicable tariff provisions specify a limitation of the carrier's absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 380, Bill of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby desire that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

On behalf of CSX Transportation Signature

COD
Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and al other lawful charges.

(Signature of Consignor)

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID Except when box at Right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or comparison in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to

Destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER CSX Transportation, Inc.
PER on BEHALF of CSX

CARRIER ALLIANCE SERVICE GROUP
PER
DATE 5-22-13

Grooms Tire Recycling

GTR, LLC

P.O. Box 21066 • Indianapolis, IN 46221
Office 238-0388 • Fax 238-5257

INVOICE

INVOICE NUMBER
GTR- 11028
INVOICE DATE
MAY 21 2013

TO CSX TRANSPORTATION
240 COUNTRY CLUB DR
BLOOMINGTON IN

PO # _____

COD ☐ 10th Prox. ☐

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	High Tread Tires		
6	~~Medium Tread~~ Tires TRUCK TIRES	7 00	42 00
5	~~Low Tread~~ Tires PASSENGER TIRES	2 00	10 00
	Sets:		
	sizes:		
	sizes:		
	RECYCLED UNDER PERMIT # 4198 0054		
	ISSUED BY		
	STATE OF INDIANA		
		CK # 354	
		PAID	
X		TOTAL	52 00

SIGNATURE

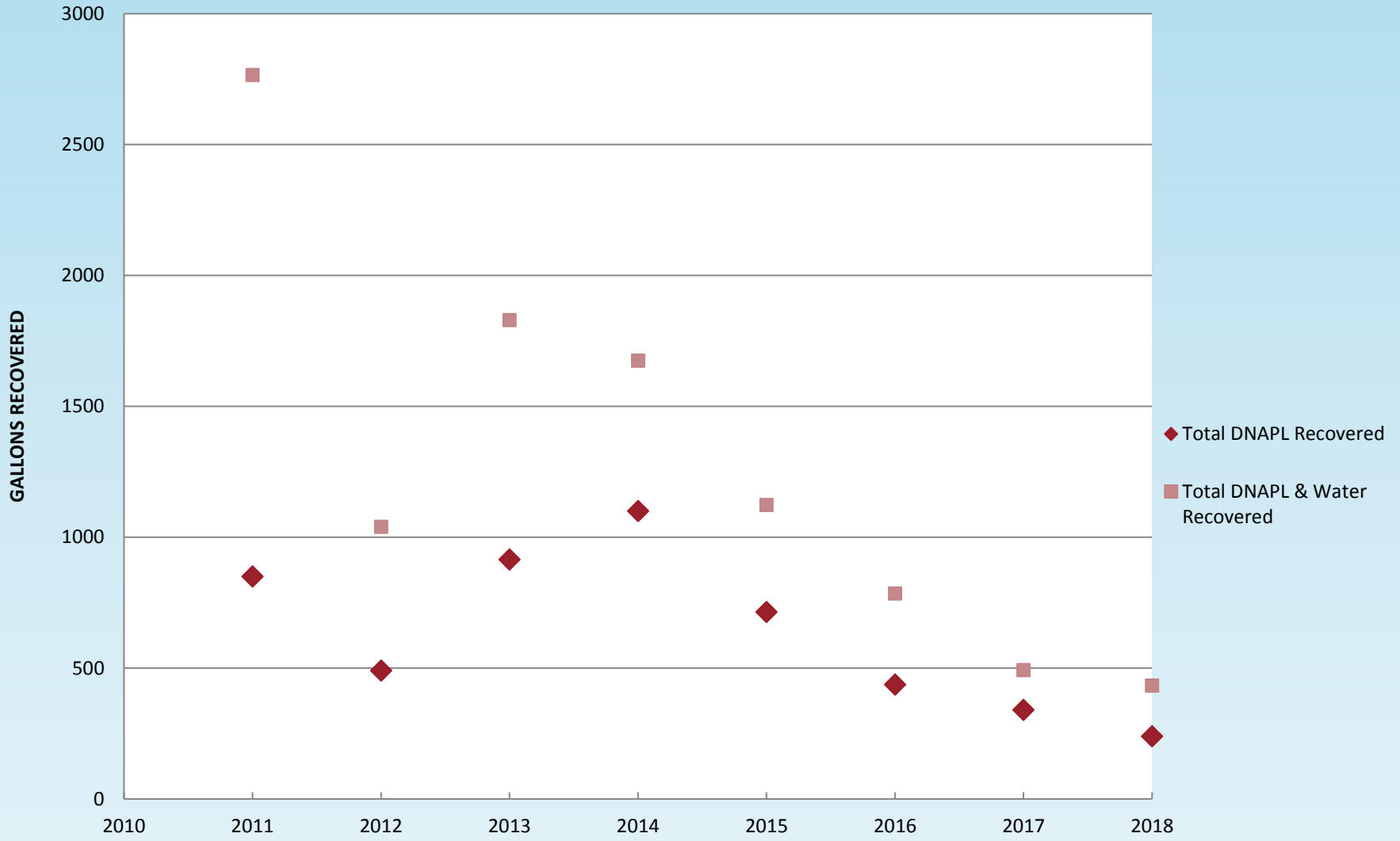
Thank You!

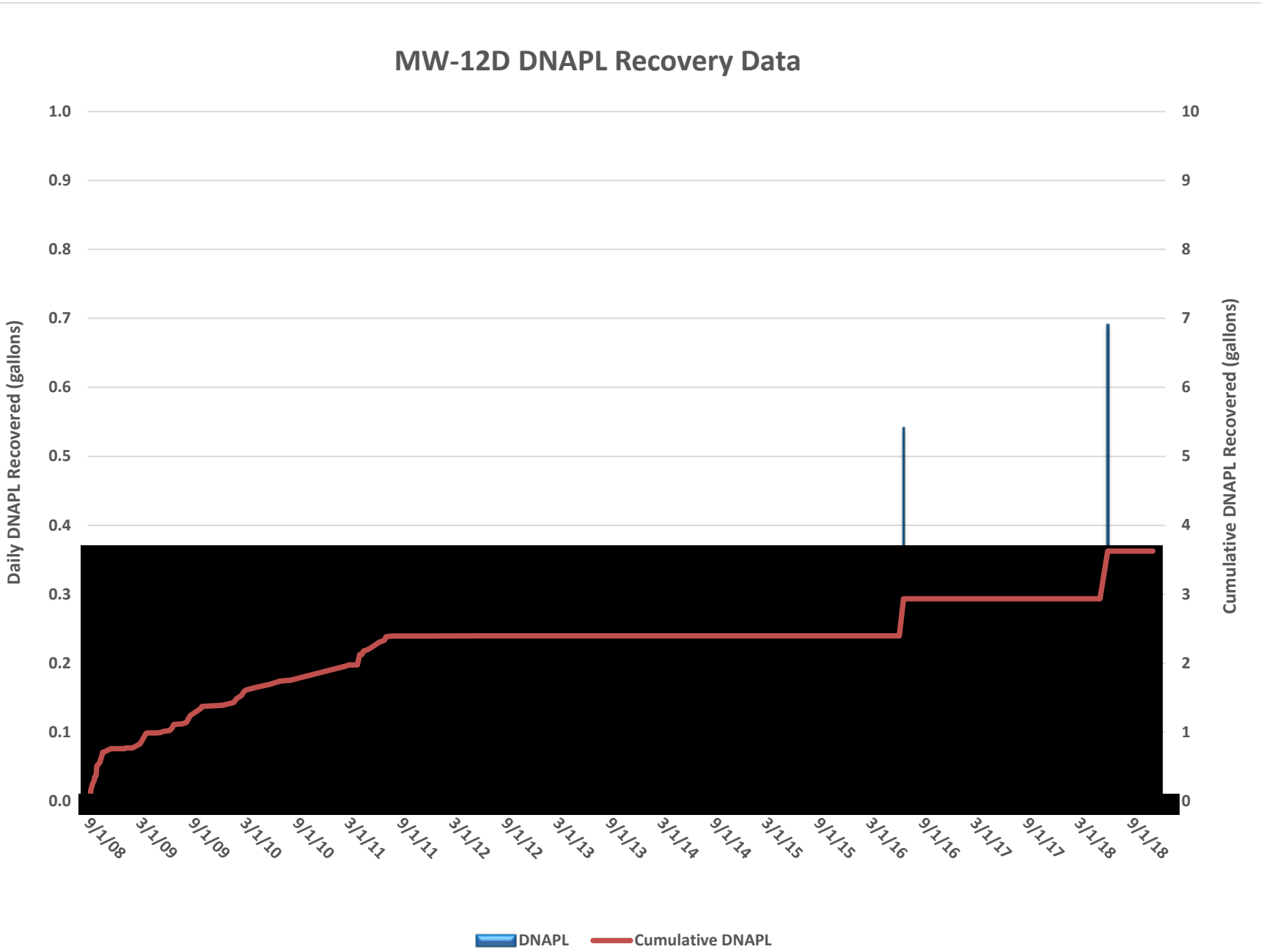
APPENDIX D

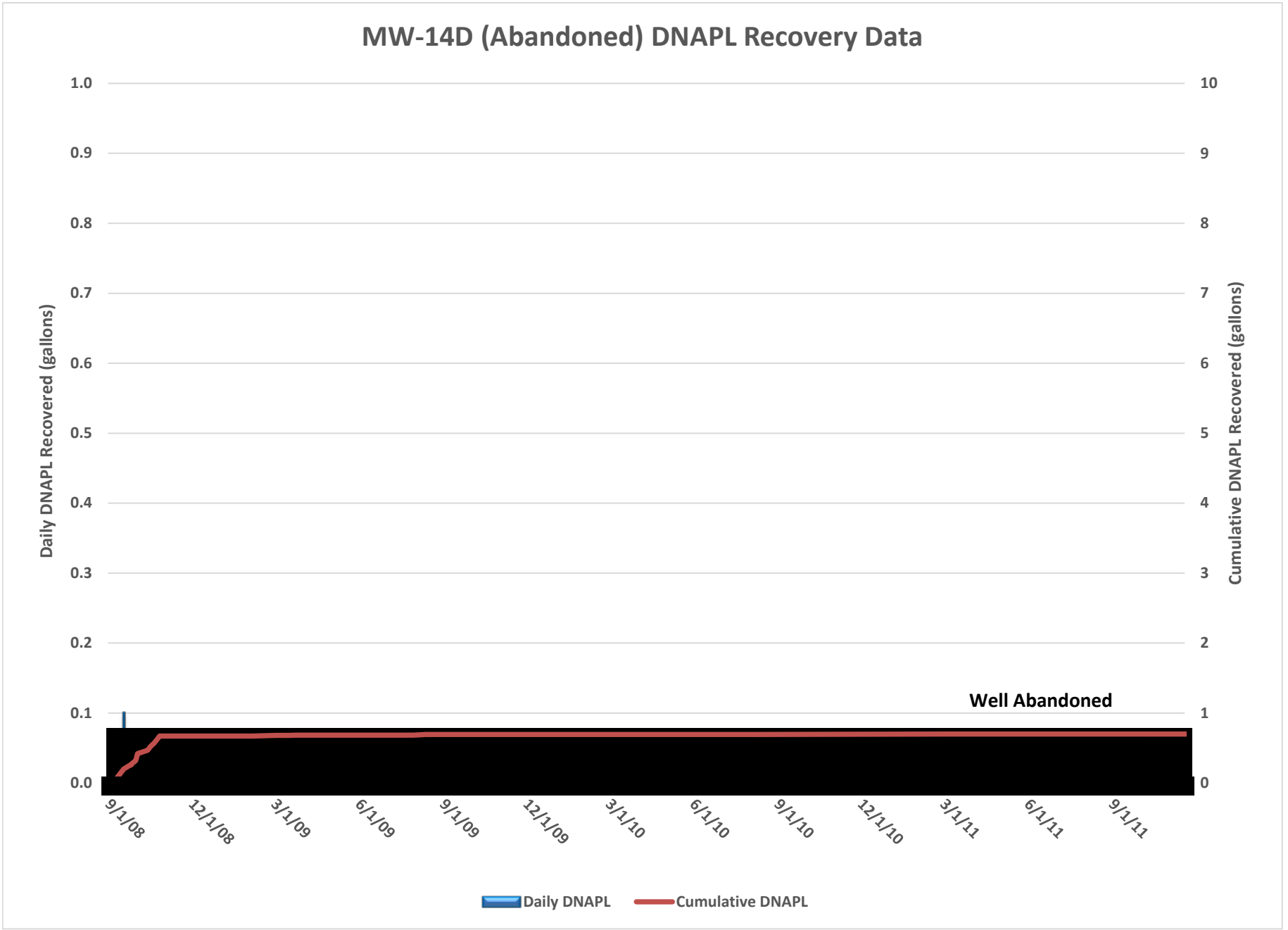
DNAPL Accumulation Graphs

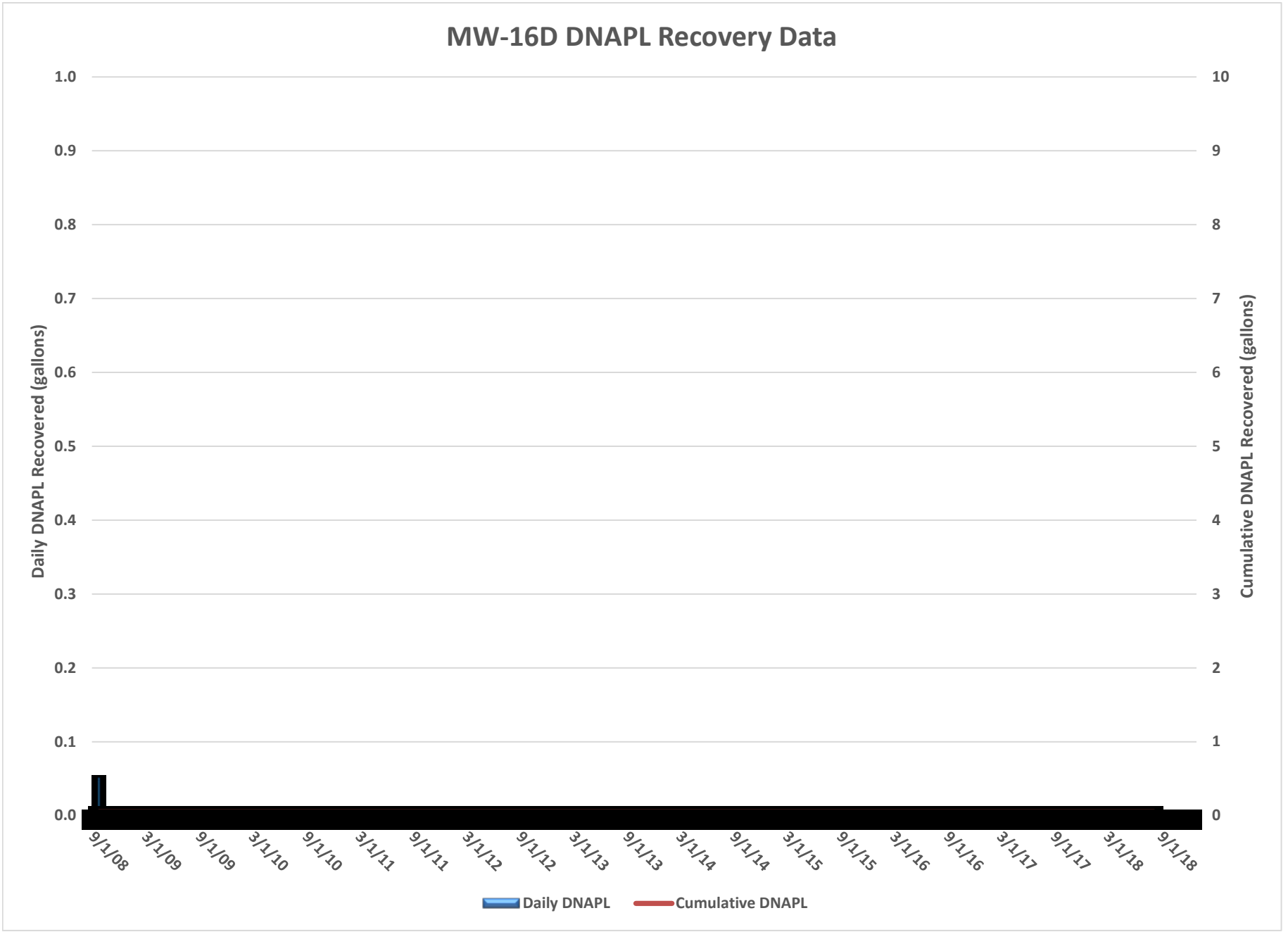
TOTAL DNAPL RECOVERED BY YEAR

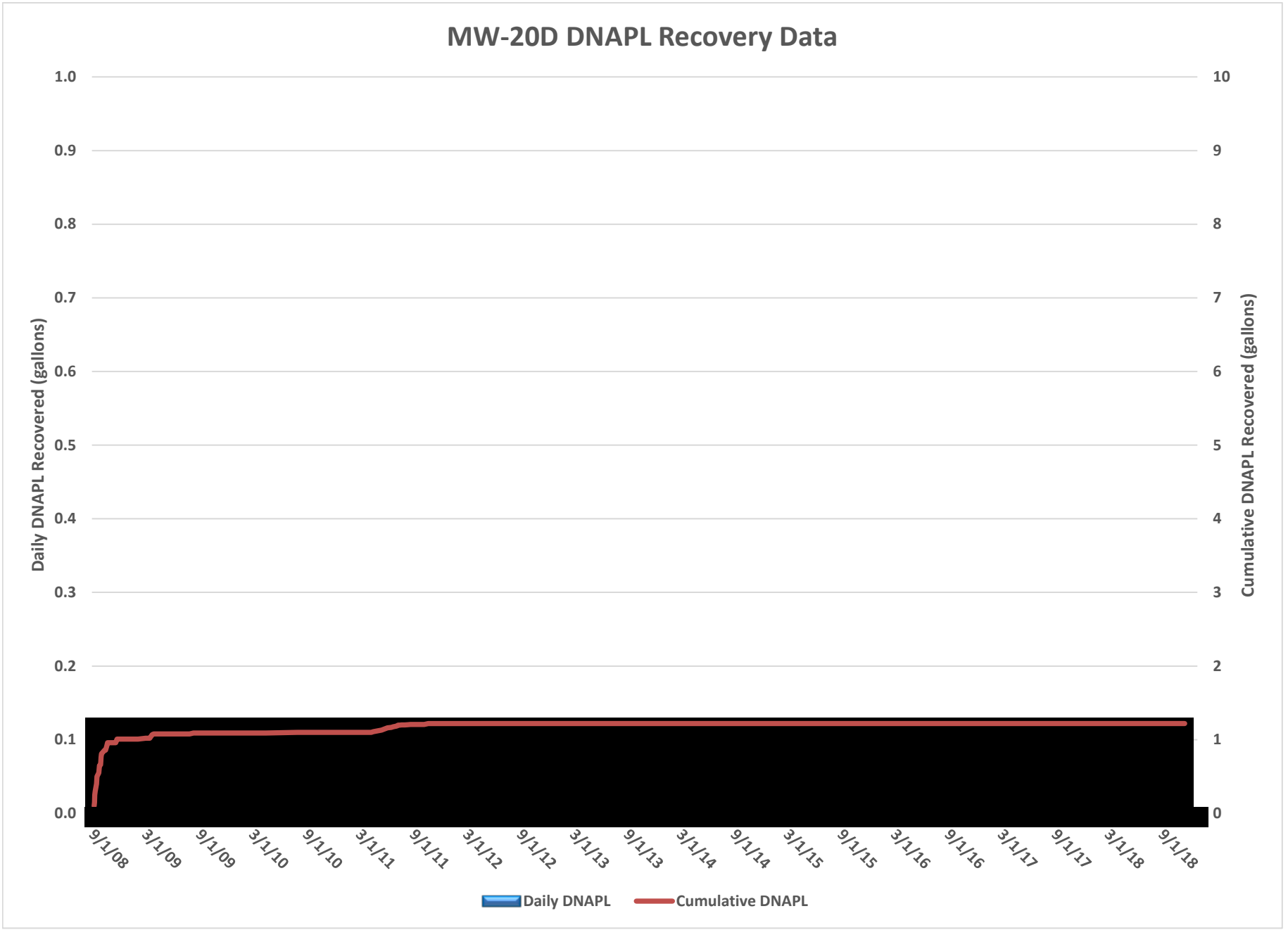
How tomorrow moves

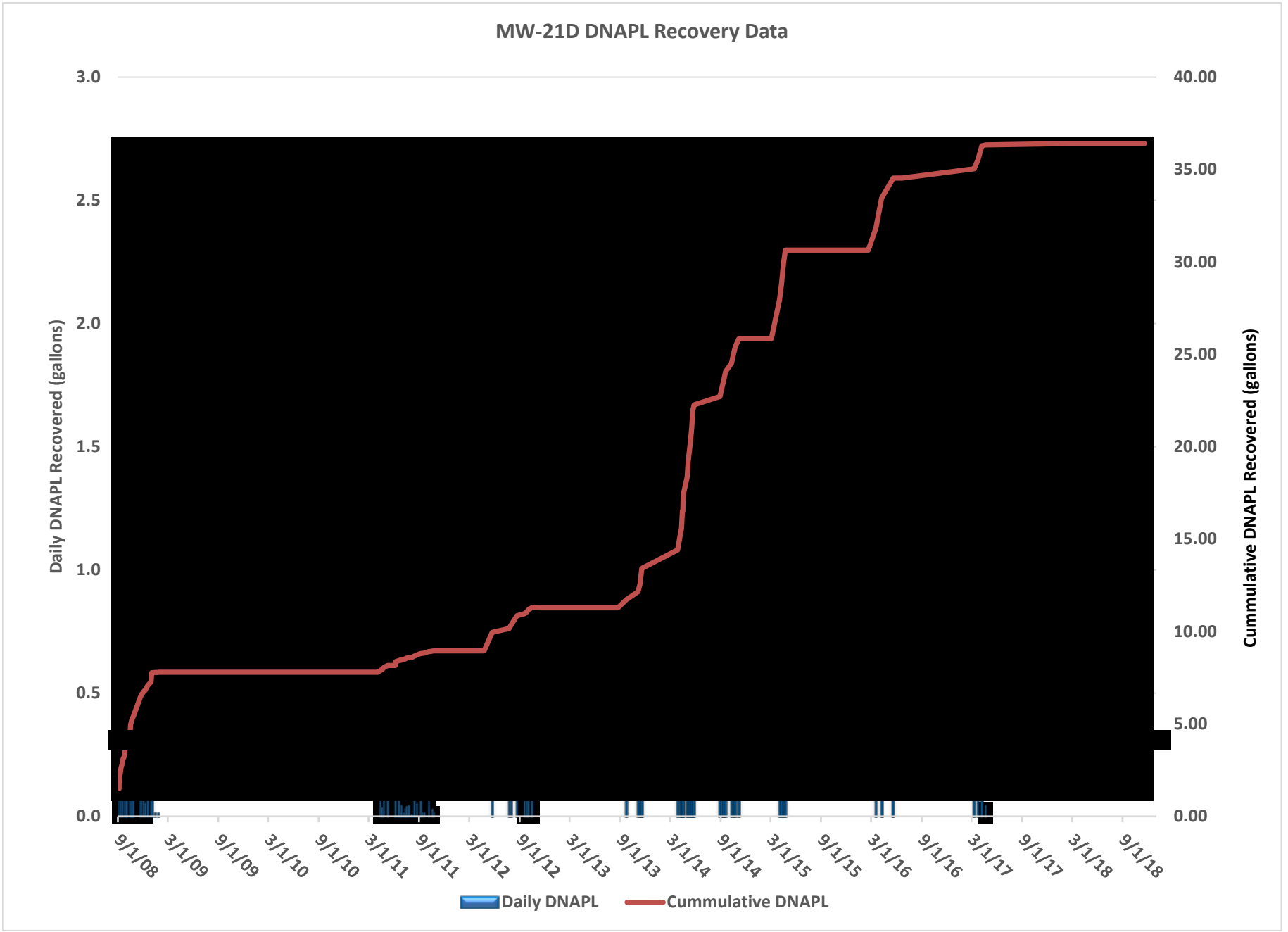


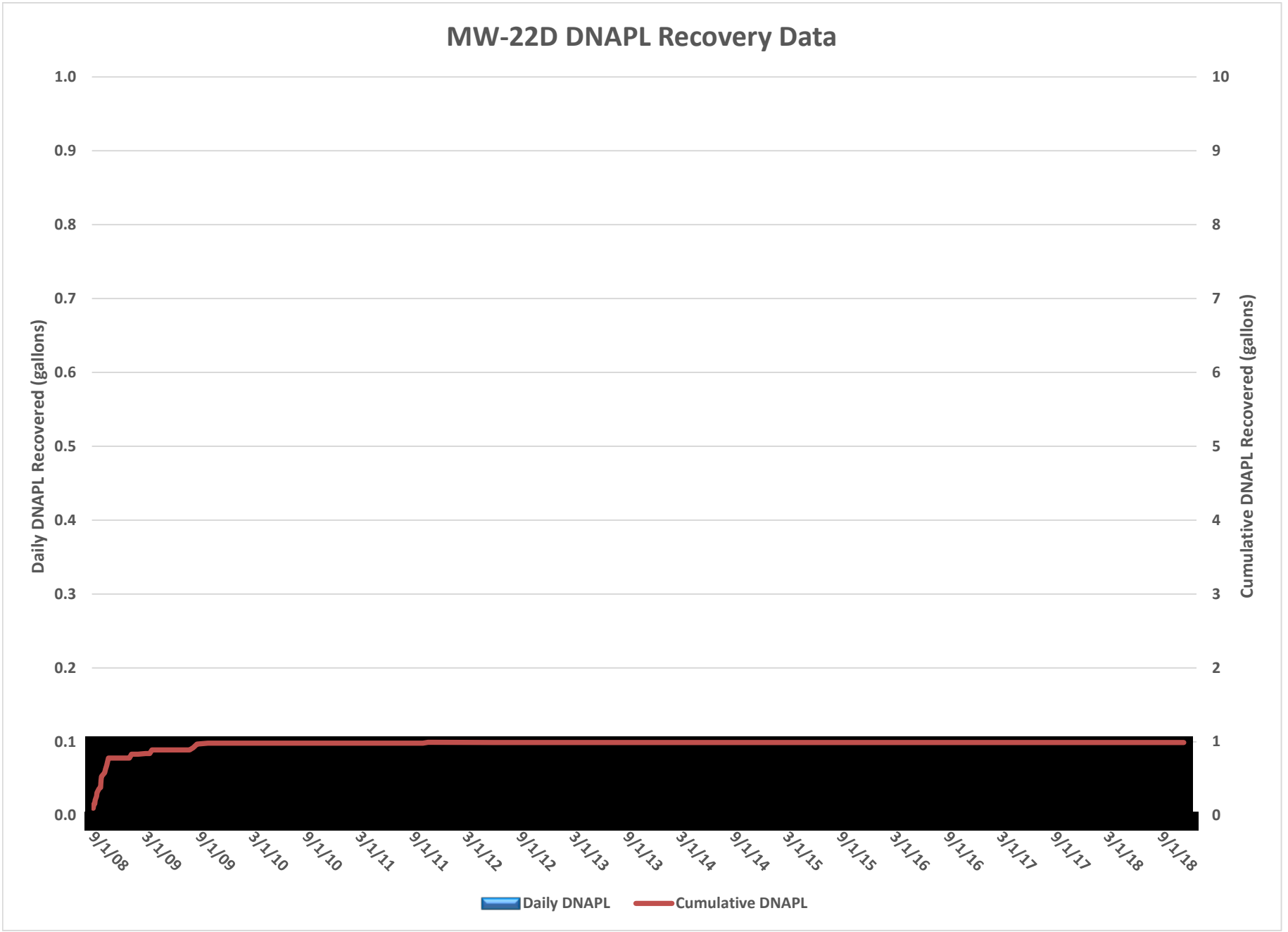

MW-12D DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
DNAPL
Cumulative DNAPL

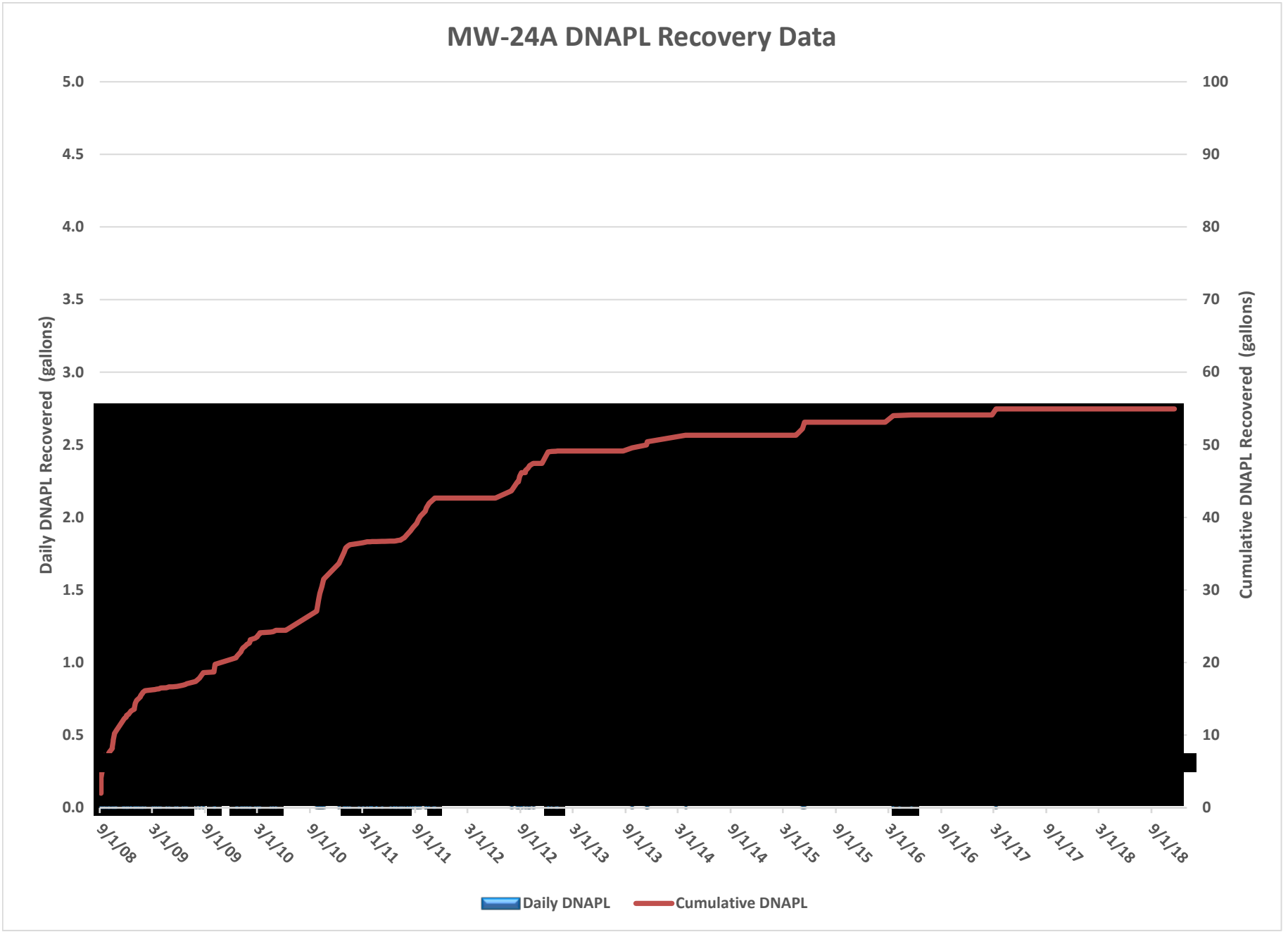

MW-14D (Abandoned) DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
Well Abandoned
9/1/08
12/1/08
3/1/09
6/1/09
9/1/09
12/1/09
3/1/10
6/1/10
9/1/10
12/1/10
3/1/11
6/1/11
9/1/11
Daily DNAPL
Cumulative DNAPL

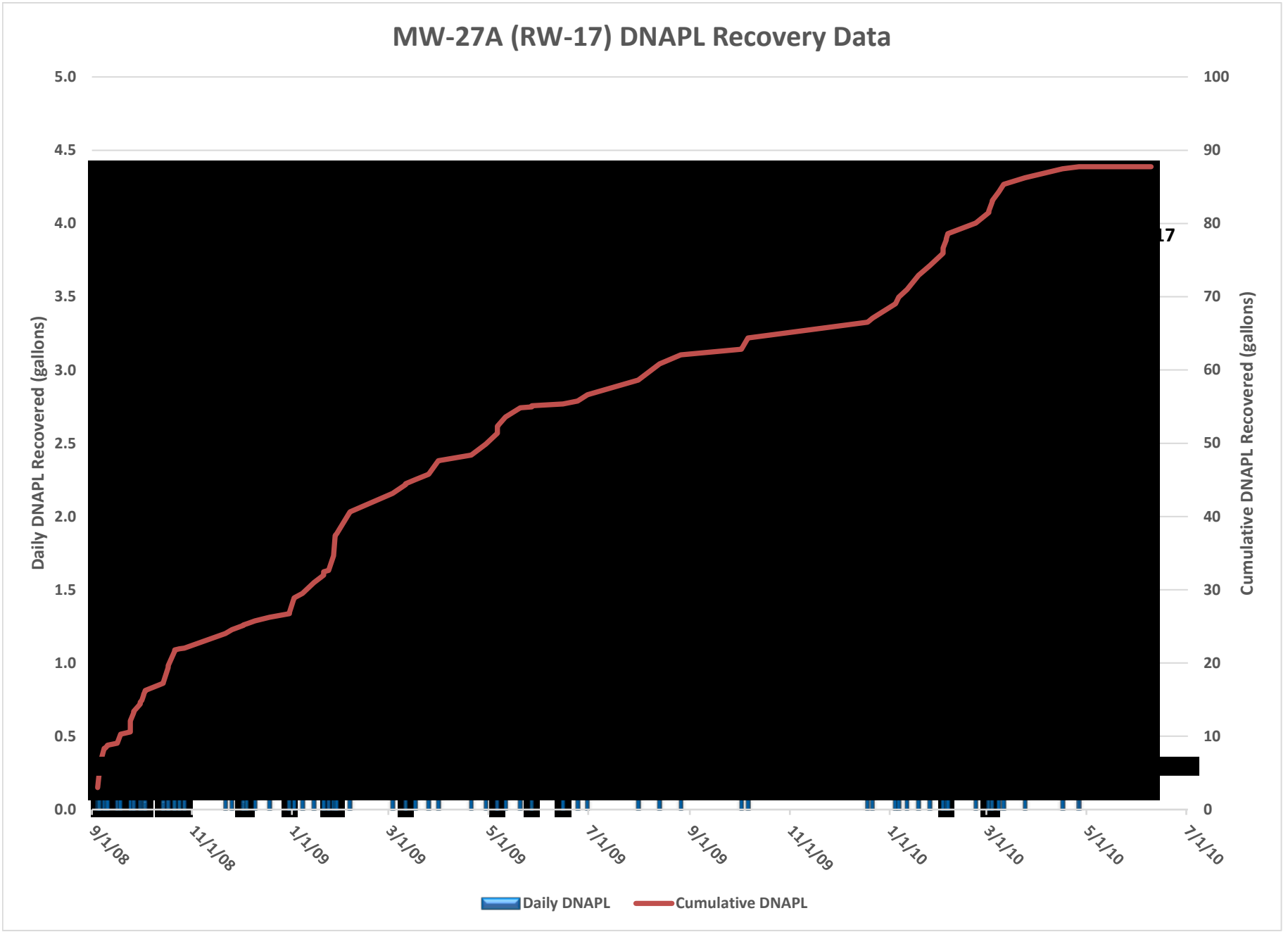

MW-16D DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cumulative DNAPL

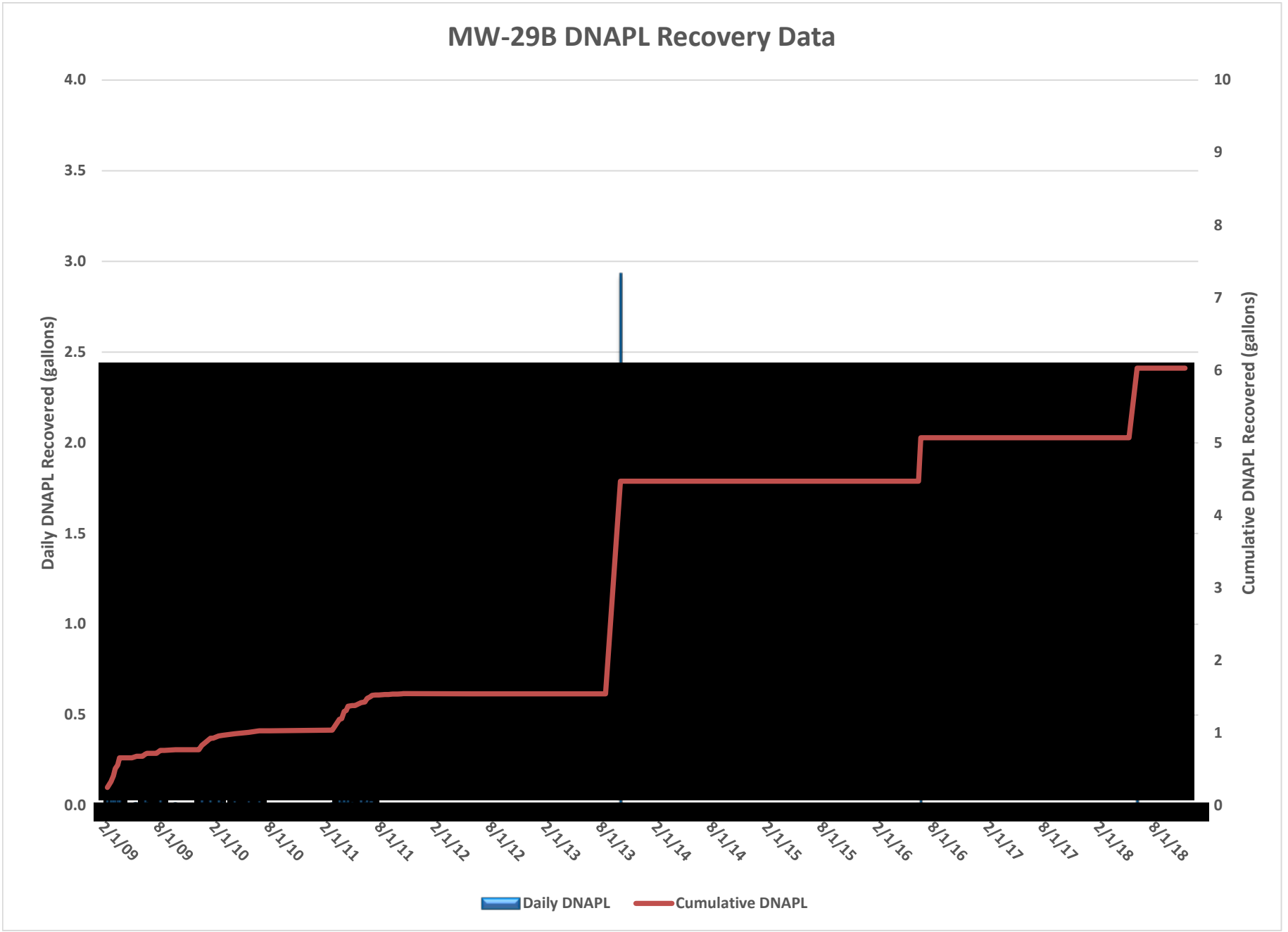

MW-20D DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cumulative DNAPL

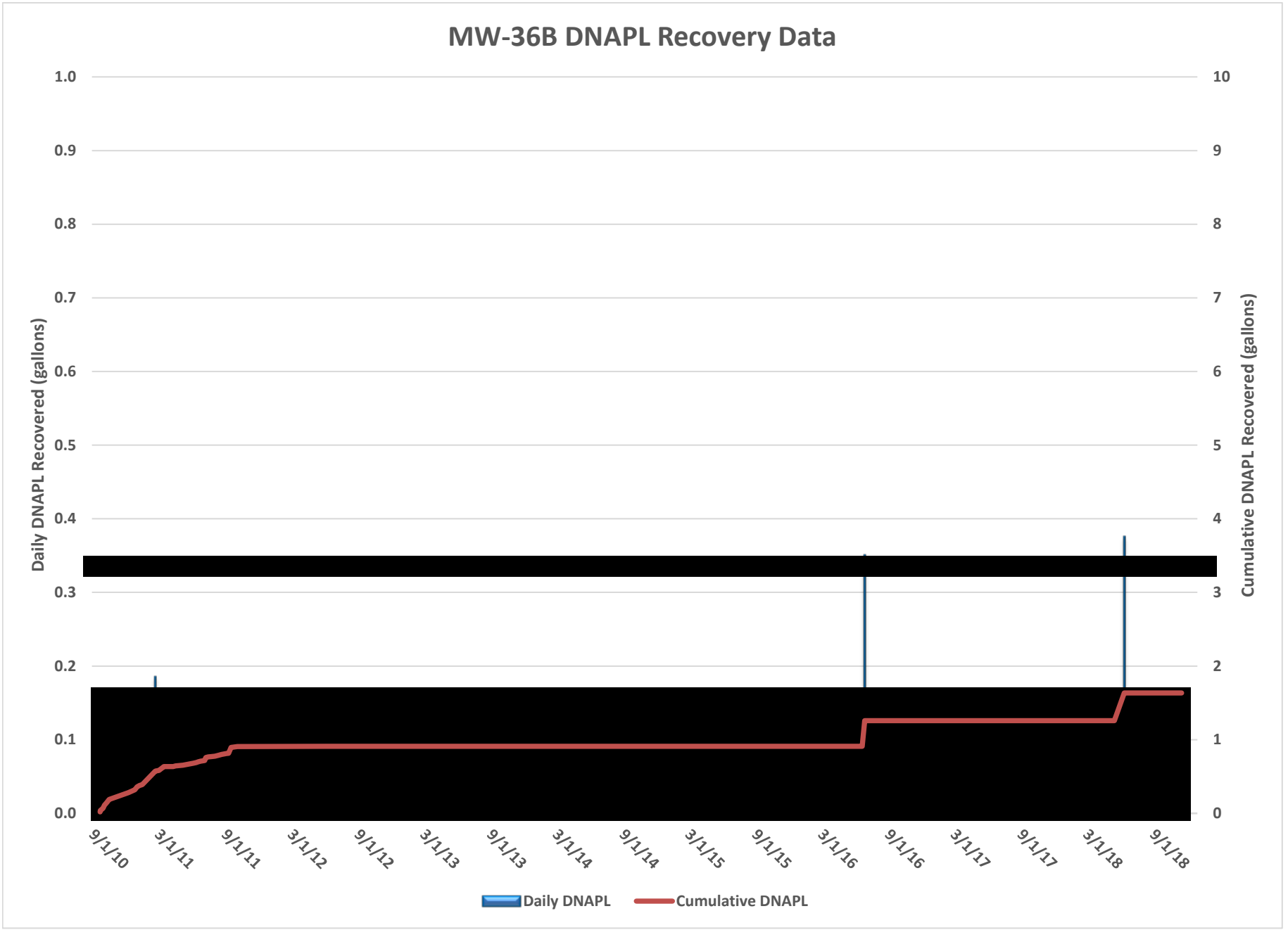

MW-21D DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cummulative DNAPL Recovered (gallons)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cummulative DNAPL

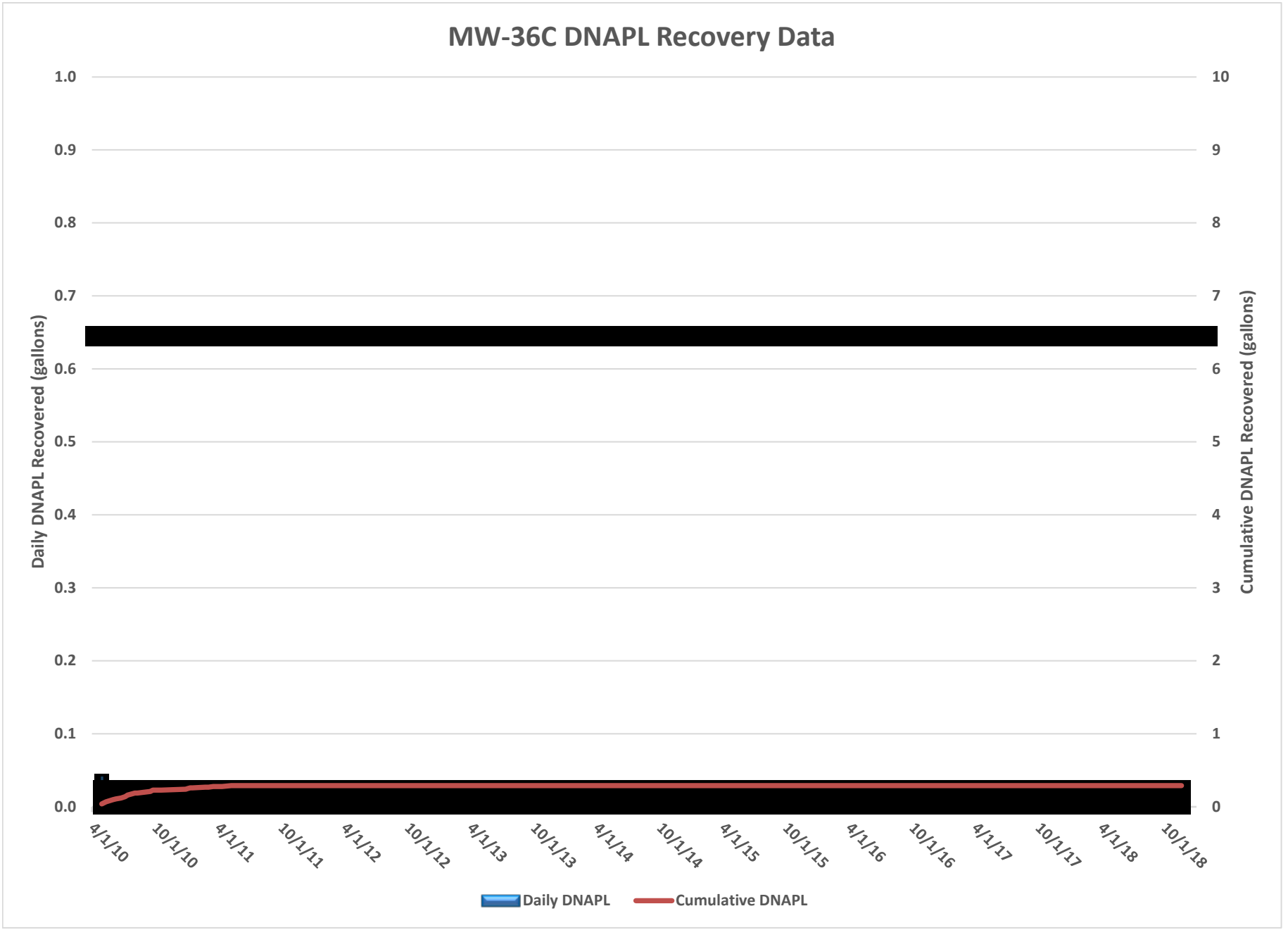

MW-22D DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cumulative DNAPL

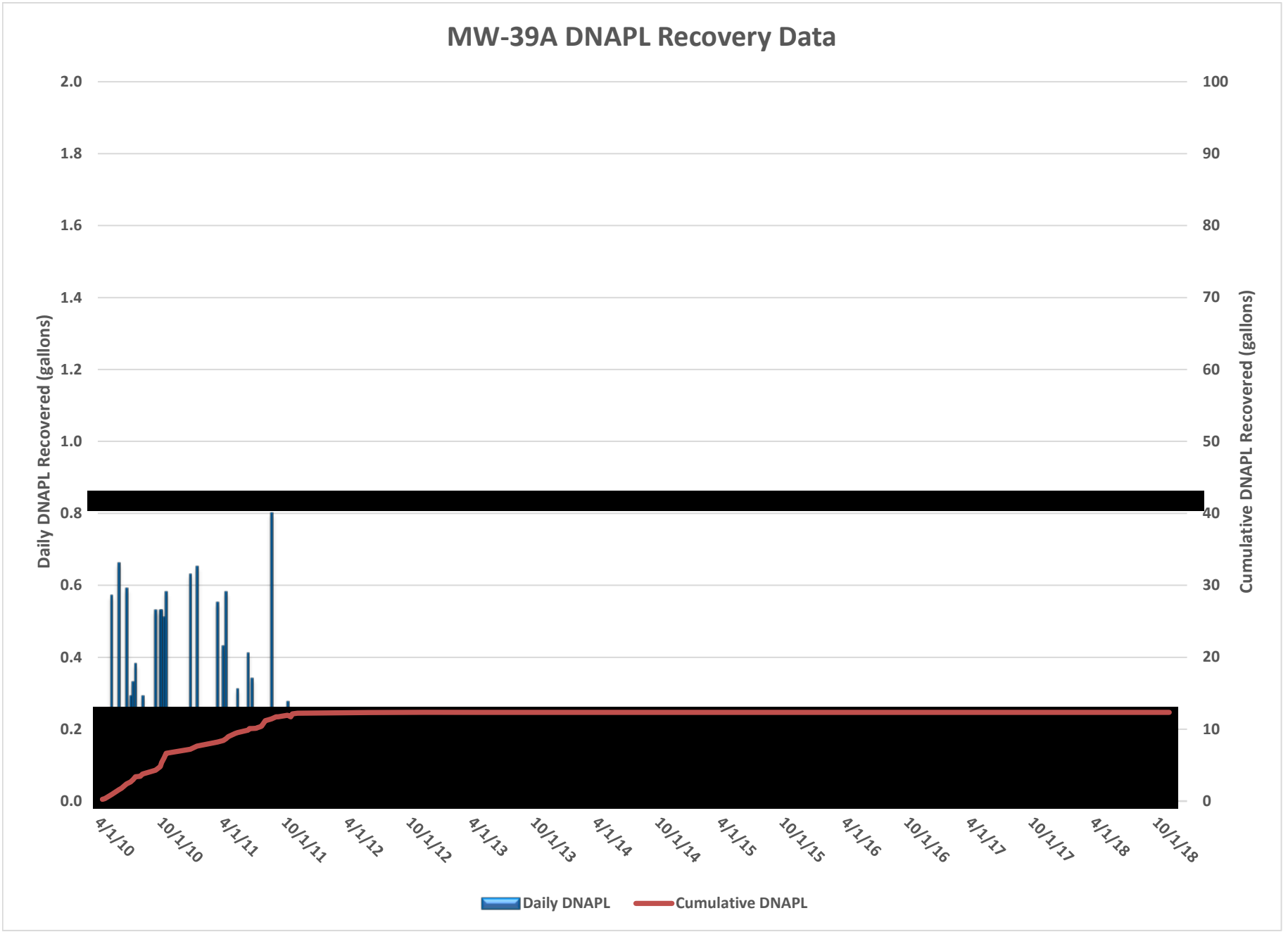

MW-24A DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
90
80
70
60
50
40
30
20
10
0
9/1/08
3/1/09
9/1/09
3/1/10
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cumulative DNAPL

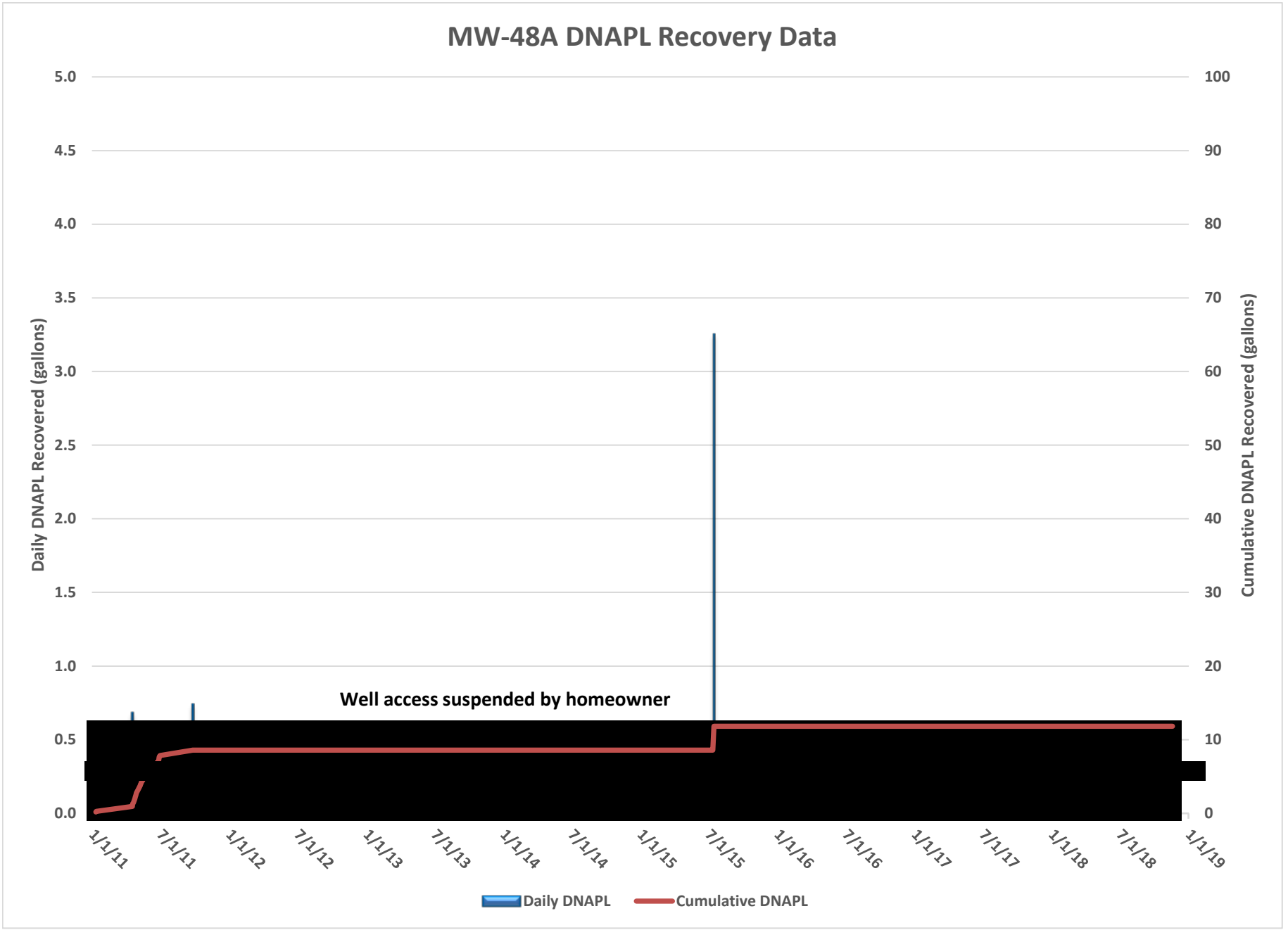

MW-27A (RW-17) DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
90
80
70
60
50
40
30
20
10
0
9/1/08
11/1/08
1/1/09
3/1/09
5/1/09
7/1/09
9/1/09
11/1/09
1/1/10
3/1/10
5/1/10
7/1/10
Daily DNAPL
Cumulative DNAPL

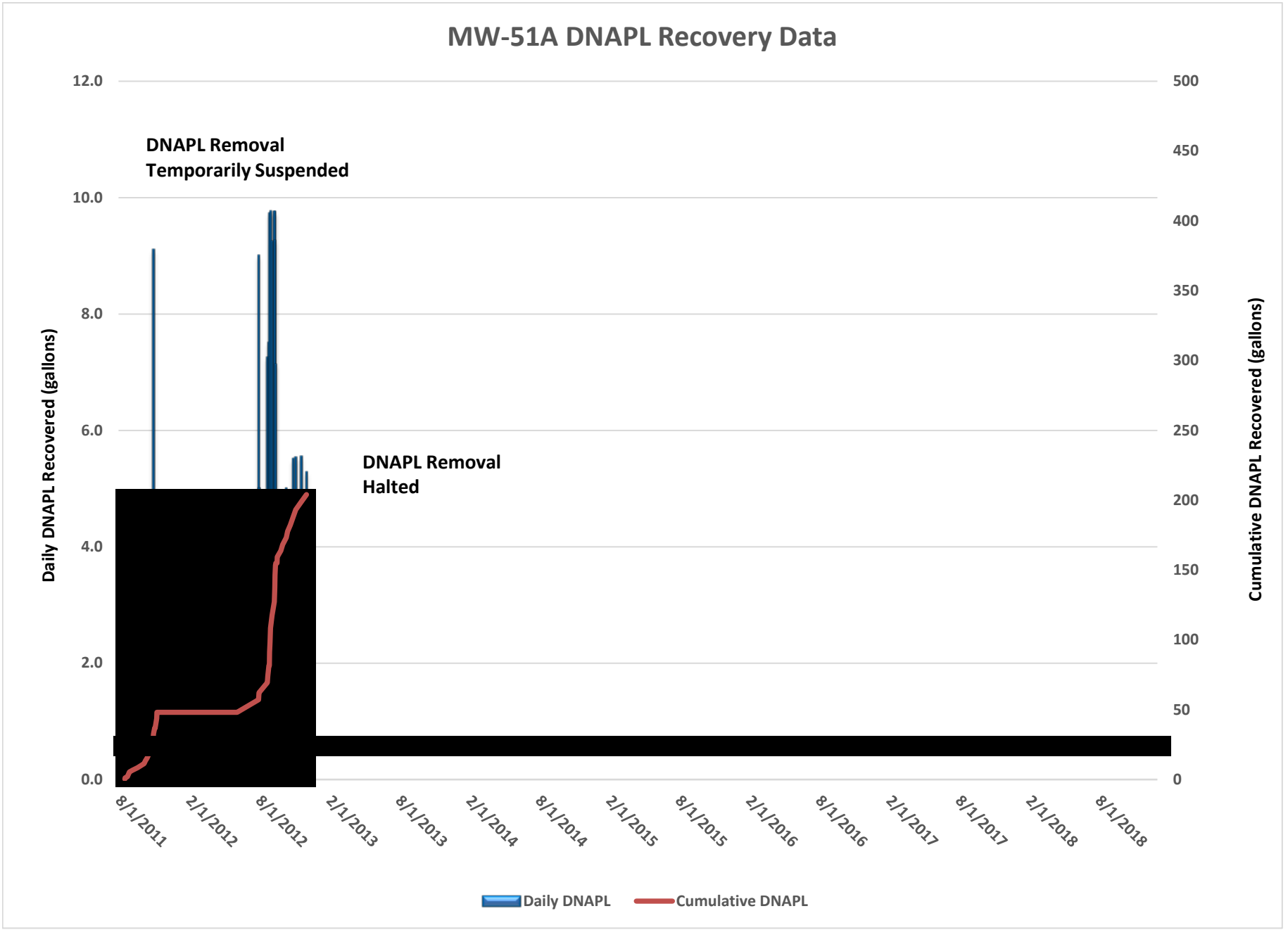

MW-29B DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10
9
8
7
6
5
4
3
2
1
0
2/1/09
8/1/09
2/1/10
8/1/10
2/1/11
8/1/11
2/1/12
8/1/12
2/1/13
8/1/13
2/1/14
8/1/14
2/1/15
8/1/15
2/1/16
8/1/16
2/1/17
8/1/17
2/1/18
8/1/18
Daily DNAPL
Cumulative DNAPL

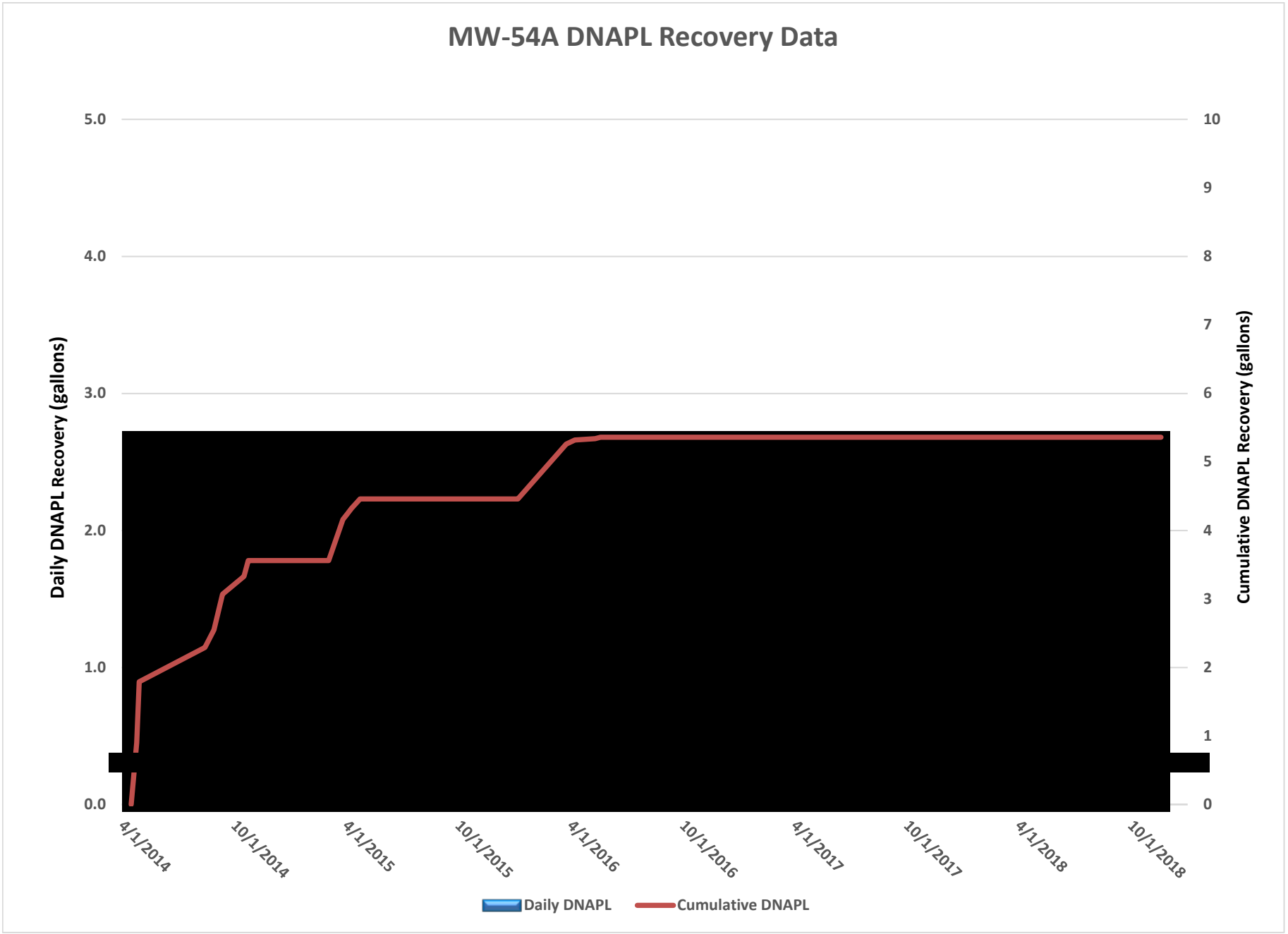

MW-36B DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
9/1/10
3/1/11
9/1/11
3/1/12
9/1/12
3/1/13
9/1/13
3/1/14
9/1/14
3/1/15
9/1/15
3/1/16
9/1/16
3/1/17
9/1/17
3/1/18
9/1/18
Daily DNAPL
Cumulative DNAPL

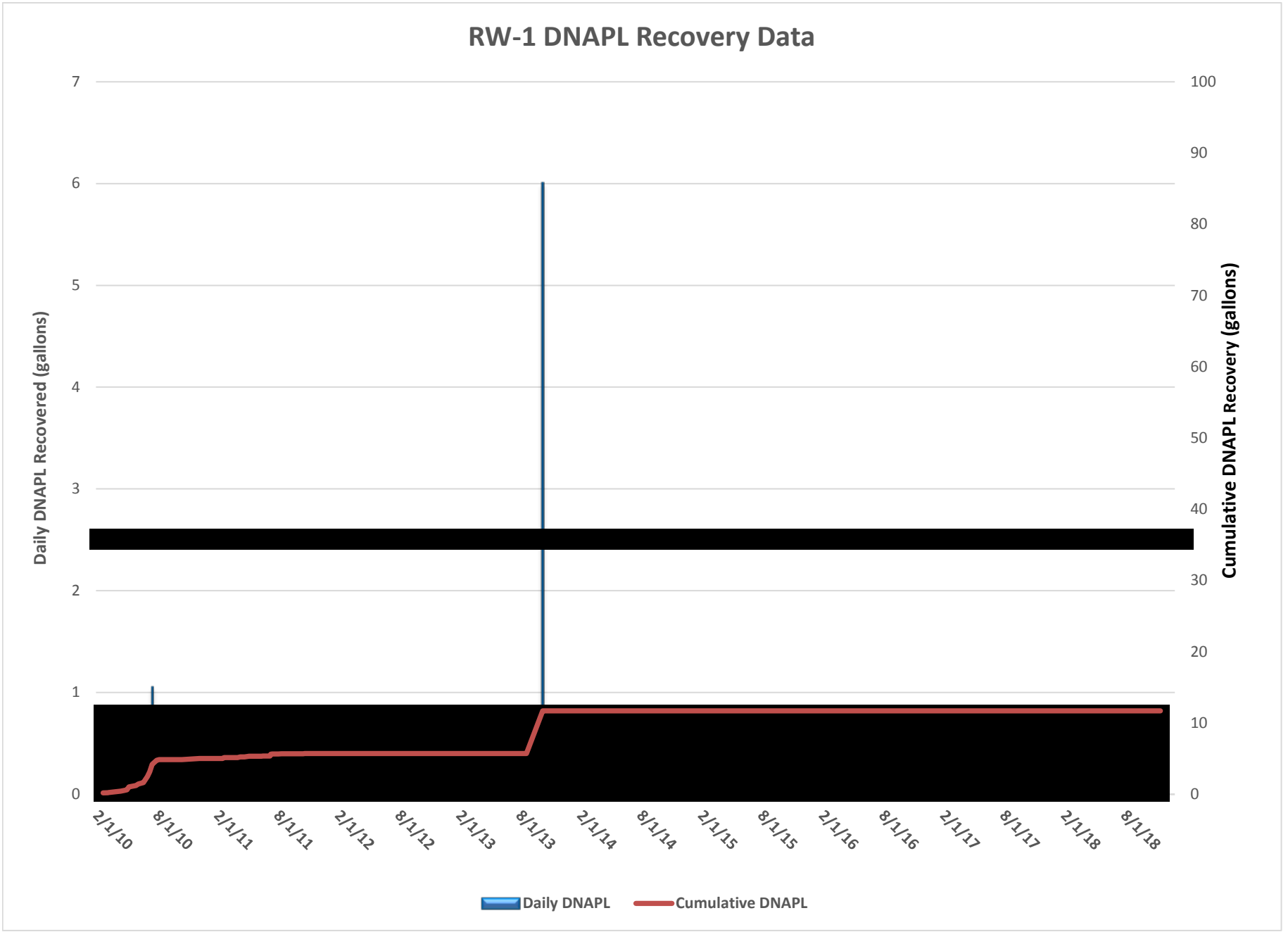

MW-36C DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
10
9
8
7
6
5
4
3
2
1
0
4/1/10
10/1/10
4/1/11
10/1/11
4/1/12
10/1/12
4/1/13
10/1/13
4/1/14
10/1/14
4/1/15
10/1/15
4/1/16
10/1/16
4/1/17
10/1/17
4/1/18
10/1/18
Daily DNAPL
Cumulative DNAPL

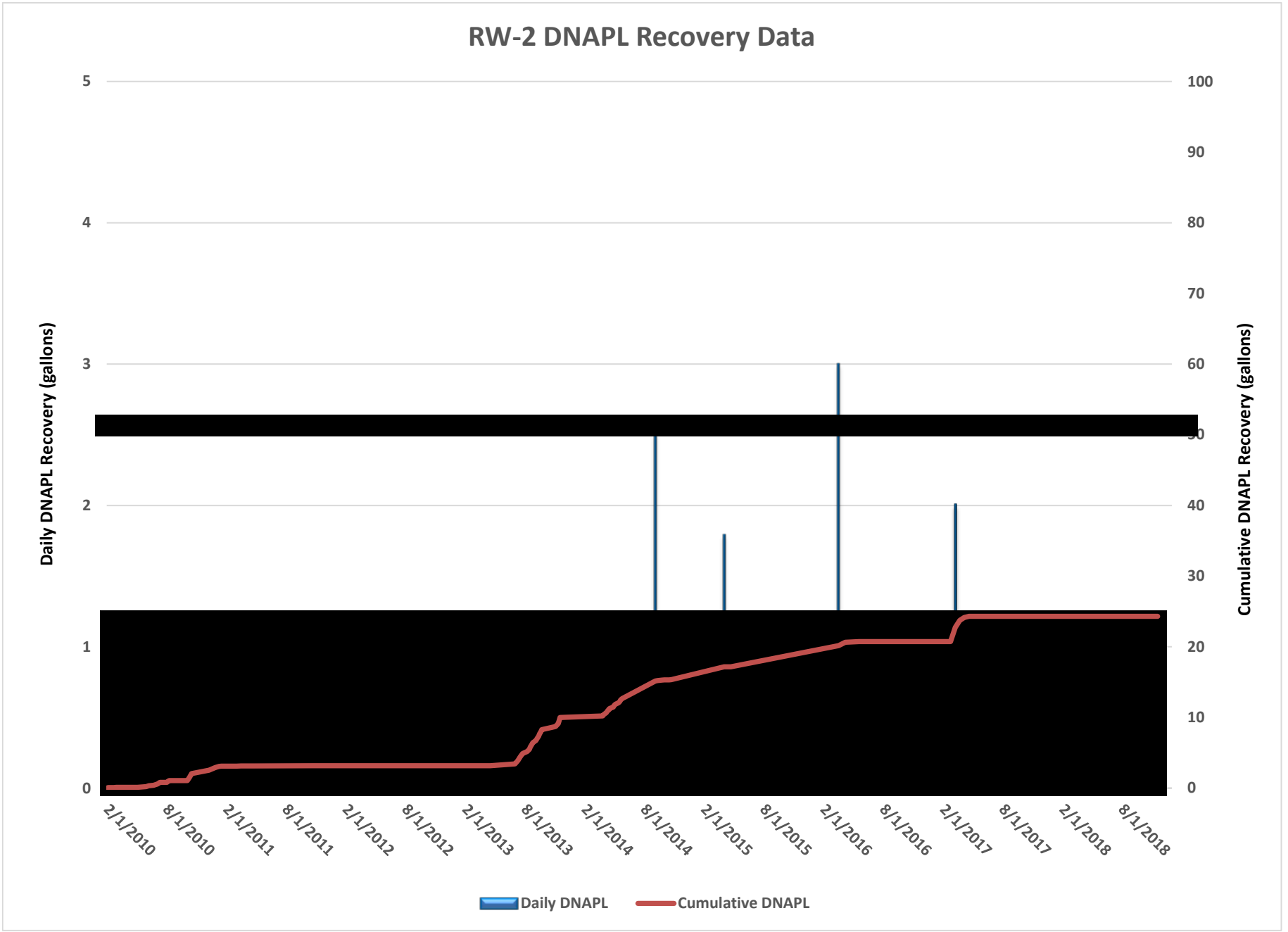

MW-39A DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
100
90
80
70
60
50
40
30
20
10
0
4/1/10
10/1/10
4/1/11
10/1/11
4/1/12
10/1/12
4/1/13
10/1/13
4/1/14
10/1/14
4/1/15
10/1/15
4/1/16
10/1/16
4/1/17
10/1/17
4/1/18
10/1/18
Daily DNAPL
Cumulative DNAPL

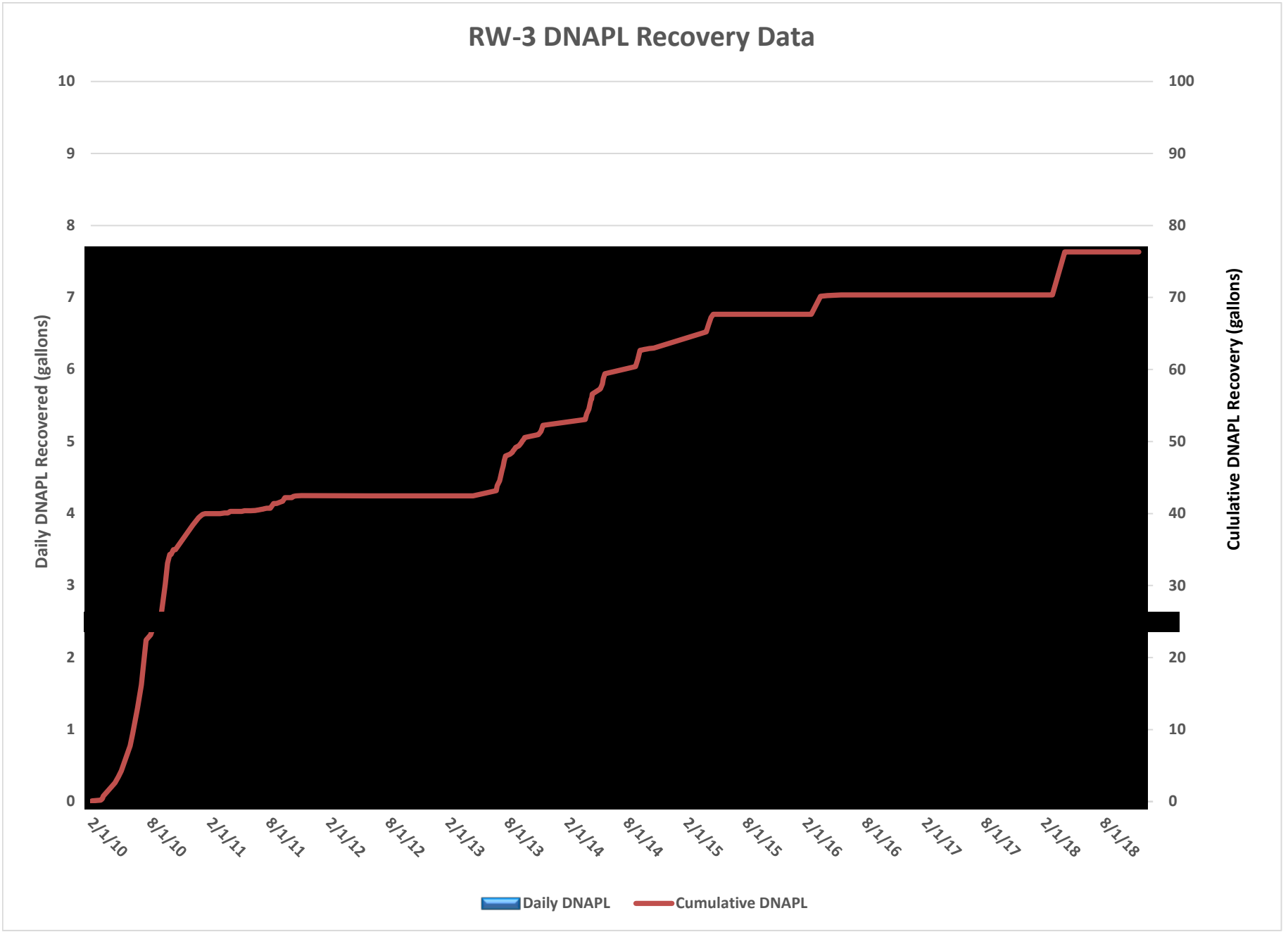

MW-48A DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100
90
80
70
60
50
40
30
20
10
0
Well access suspended by homeowner
1/1/11
7/1/11
1/1/12
7/1/12
1/1/13
7/1/13
1/1/14
7/1/14
1/1/15
7/1/15
1/1/16
7/1/16
1/1/17
7/1/17
1/1/18
7/1/18
1/1/19
Daily DNAPL
Cumulative DNAPL

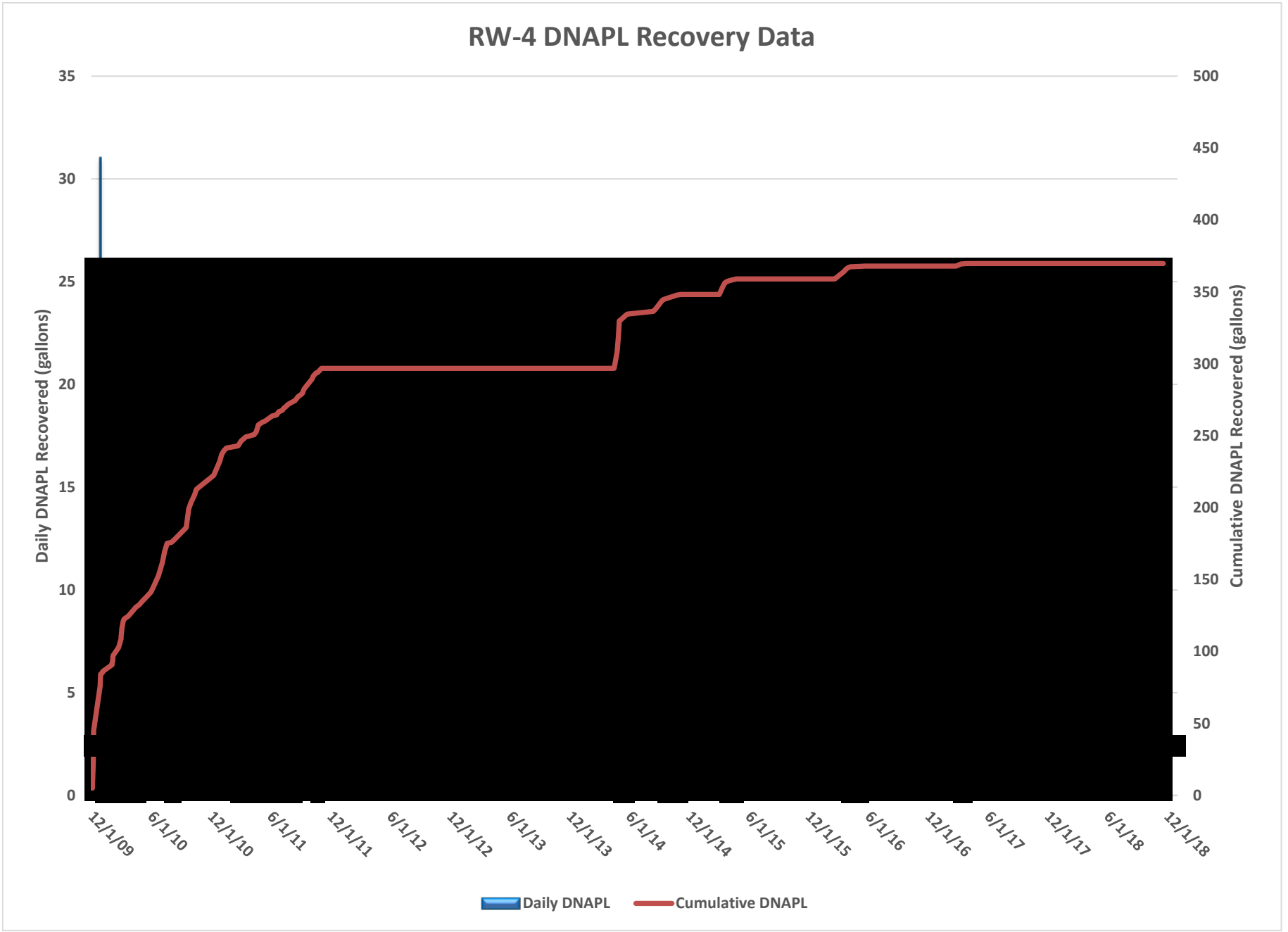

MW-51A DNAPL Recovery Data
DNAPL Removal
Temporarily Suspended
DNAPL Removal
Halted
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
500
450
400
350
300
250
200
150
100
50
0
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
2/1/2018
8/1/2018
Daily DNAPL
Cumulative DNAPL

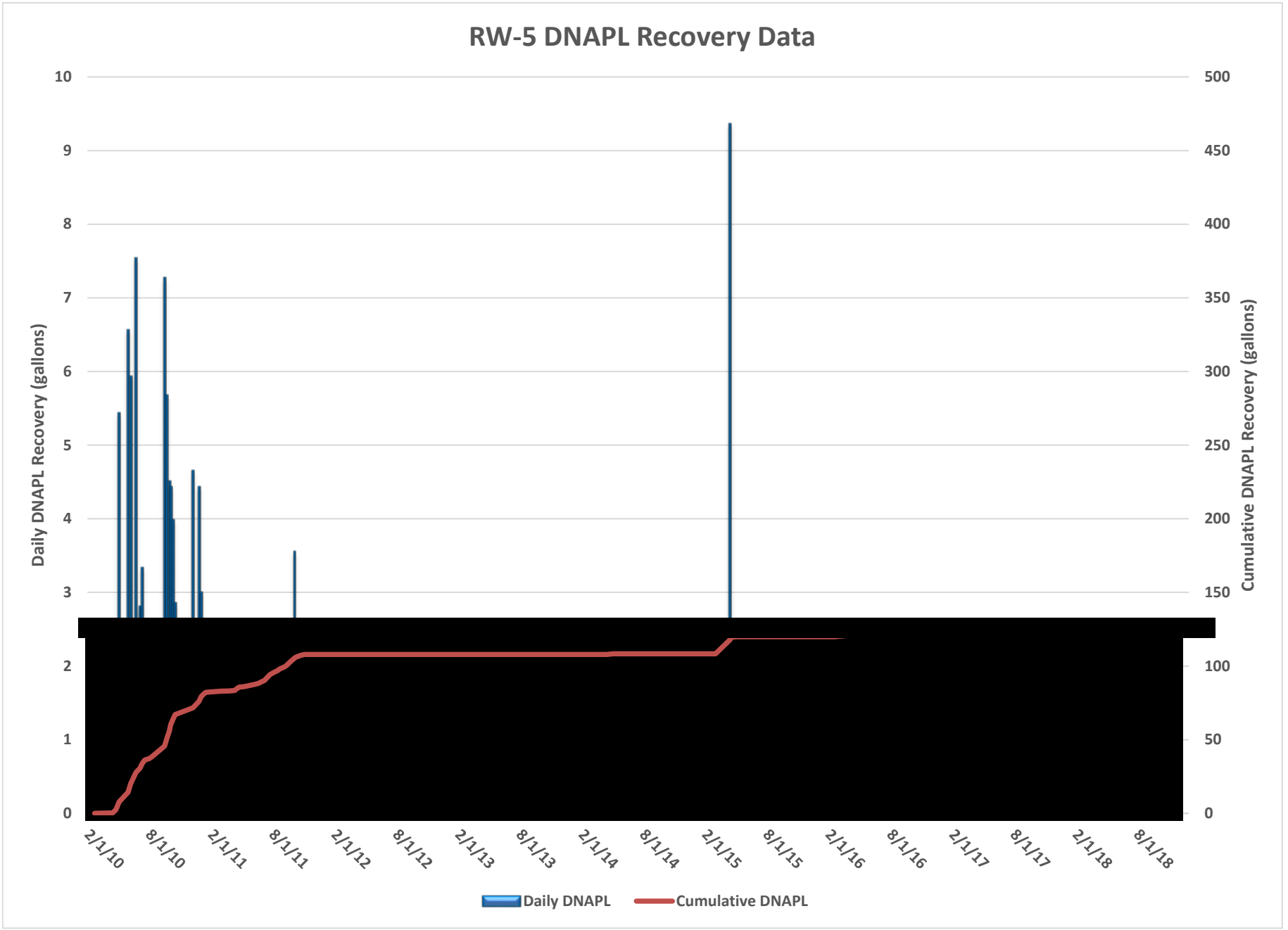

MW-54A DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
5.0
4.0
3.0
2.0
1.0
0.0
10
9
8
7
6
5
4
3
2
1
0
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
4/1/2018
10/1/2018
Daily DNAPL
Cumulative DNAPL

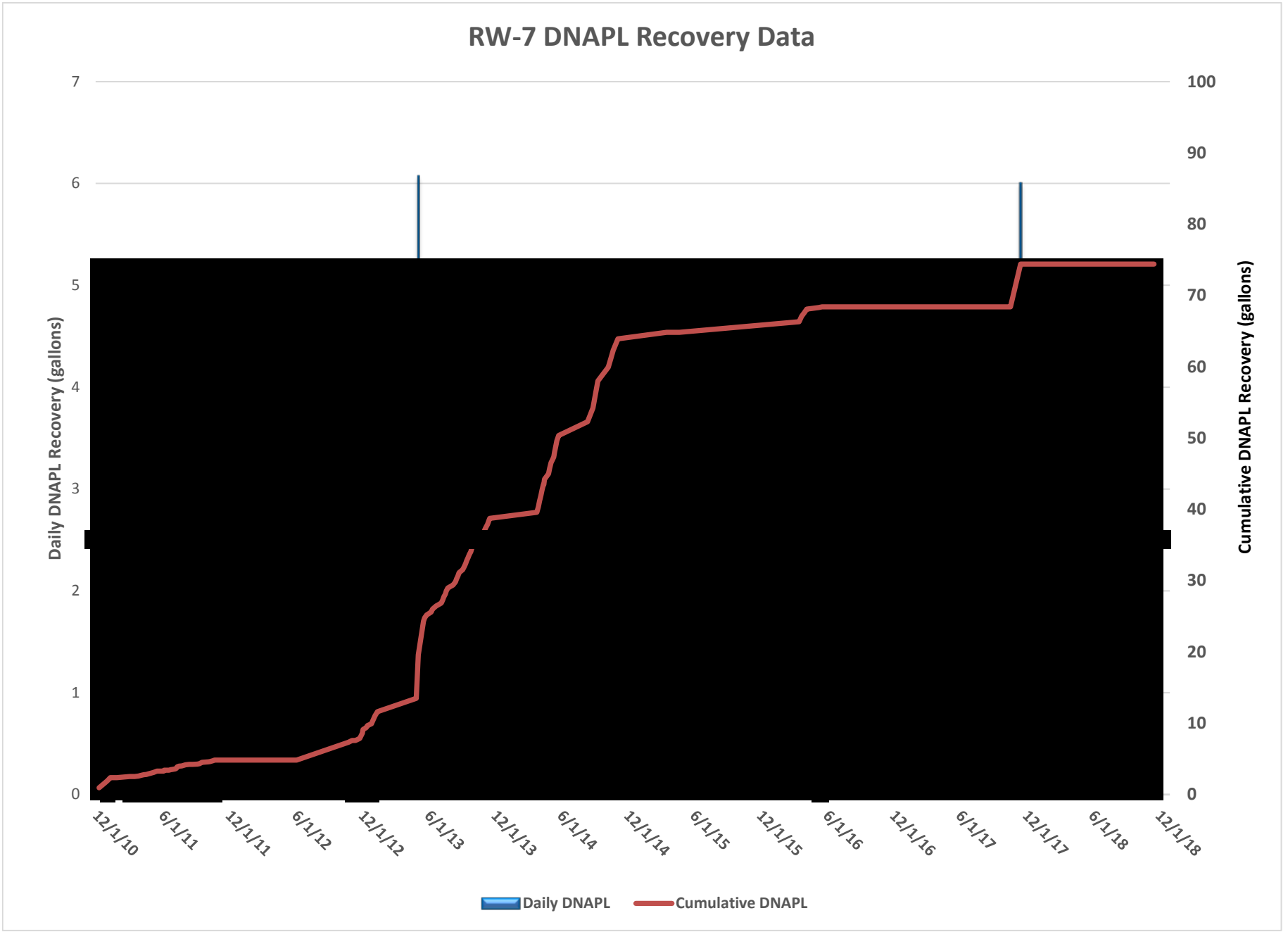

RW-1 DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovery (gallons)
0
1
2
3
4
5
6
7
0
10
20
30
40
50
60
70
80
90
100
2/1/10
8/1/10
2/1/11
8/1/11
2/1/12
8/1/12
2/1/13
8/1/13
2/1/14
8/1/14
2/1/15
8/1/15
2/1/16
8/1/16
2/1/17
8/1/17
2/1/18
8/1/18
Daily DNAPL
Cumulative DNAPL

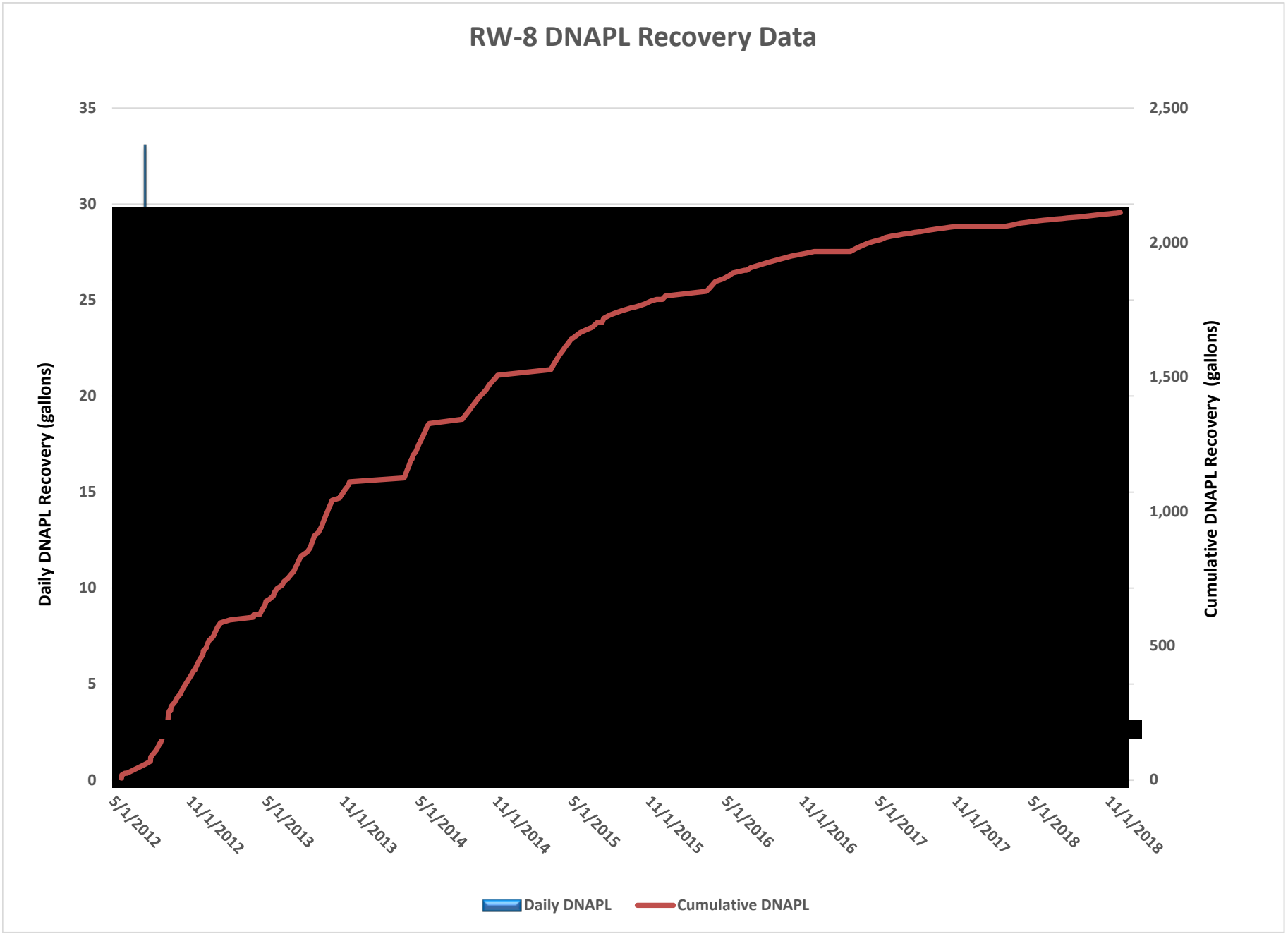

RW-2 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
5
4
3
2
1
0
100
90
80
70
60
50
40
30
20
10
0
2/1/2010
8/1/2010
2/1/2011
8/1/2011
2/1/2012
8/1/2012
2/1/2013
8/1/2013
2/1/2014
8/1/2014
2/1/2015
8/1/2015
2/1/2016
8/1/2016
2/1/2017
8/1/2017
2/1/2018
8/1/2018
Daily DNAPL
Cumulative DNAPL

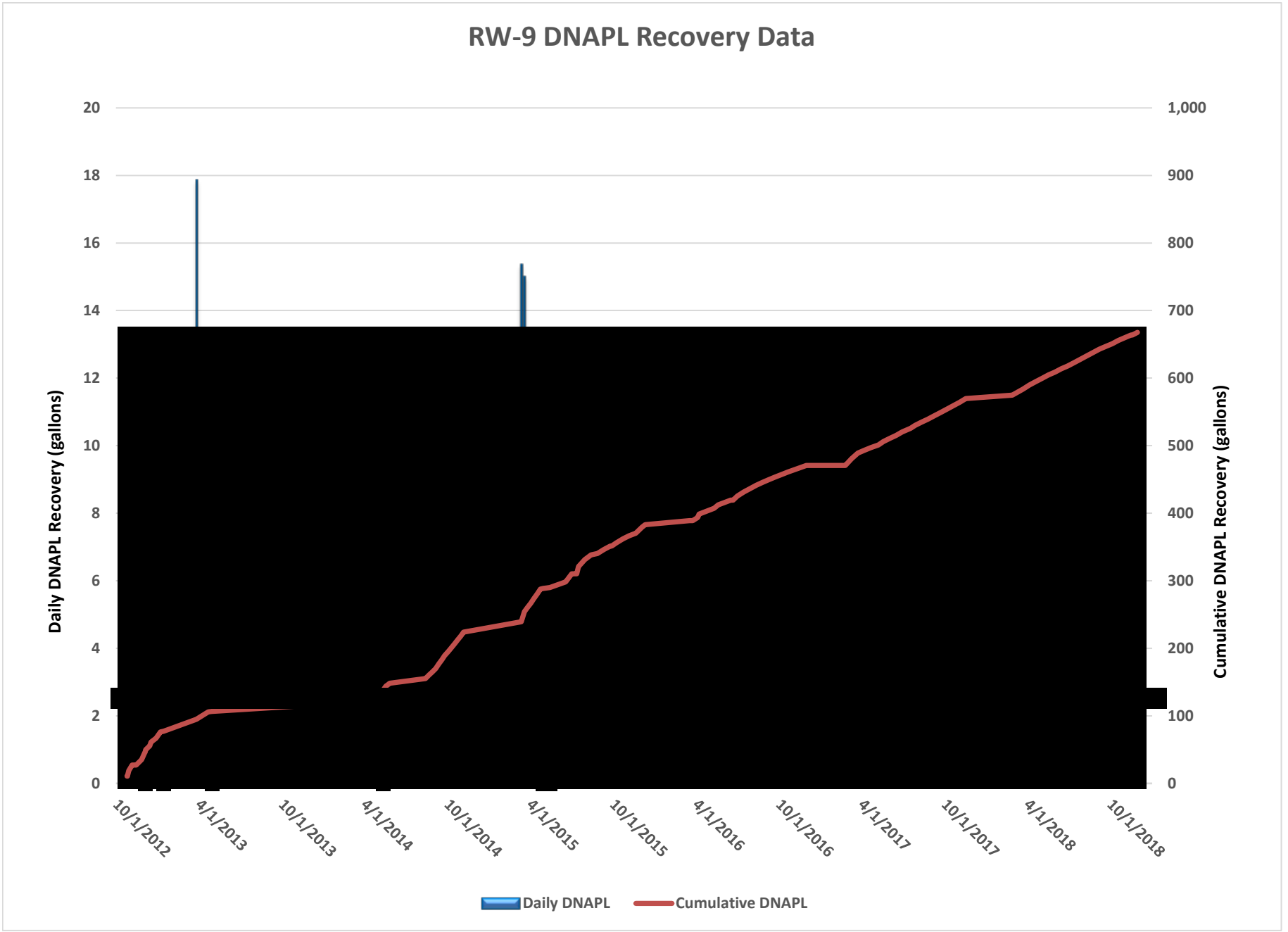

RW-3 DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cululative DNAPL Recovery (gallons)
10
9
8
7
6
5
4
3
2
1
0
100
90
80
70
60
50
40
30
20
10
0
2/1/10
8/1/10
2/1/11
8/1/11
2/1/12
8/1/12
2/1/13
8/1/13
2/1/14
8/1/14
2/1/15
8/1/15
2/1/16
8/1/16
2/1/17
8/1/17
2/1/18
8/1/18
Daily DNAPL
Cumulative DNAPL

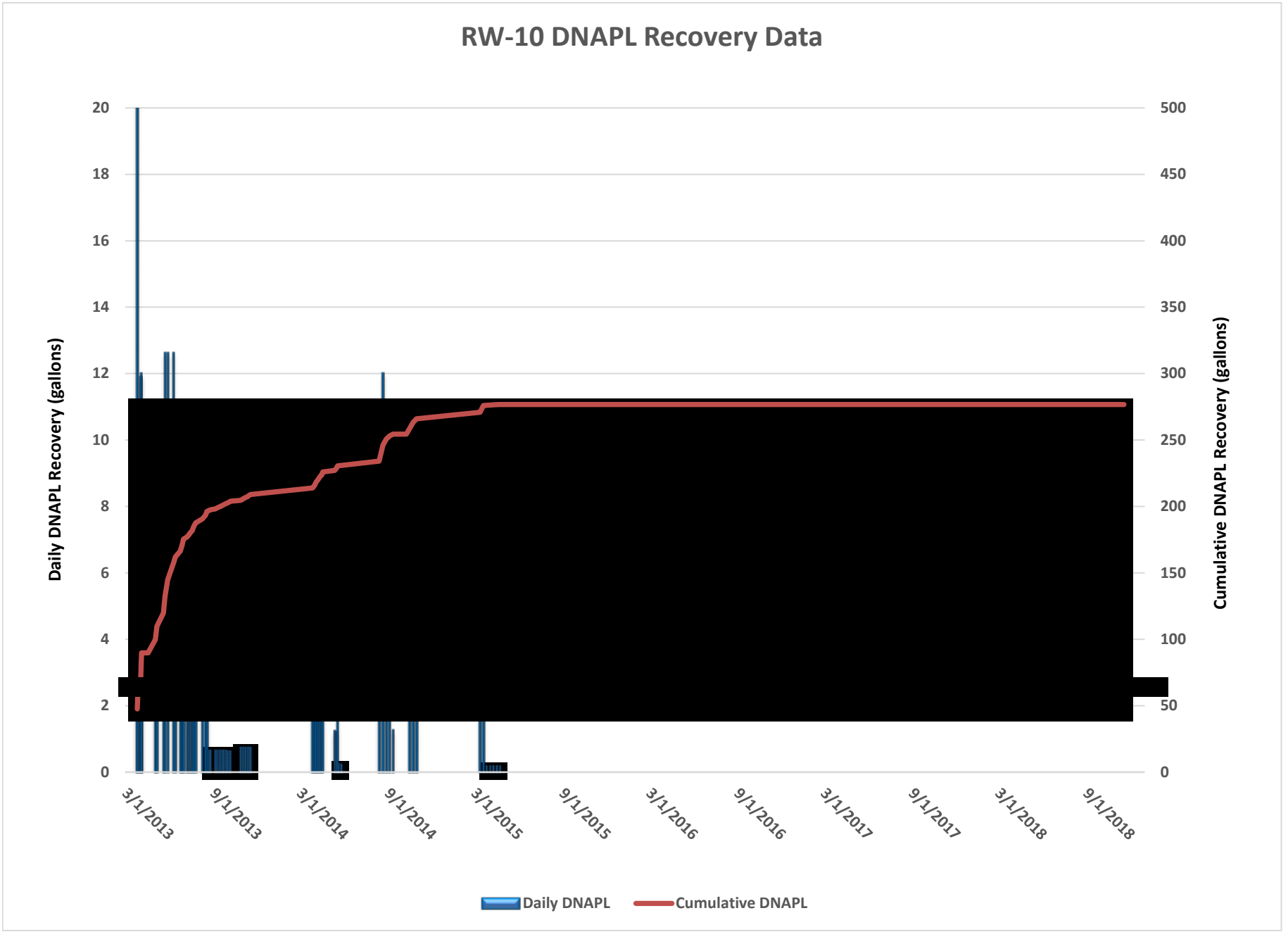

RW-4 DNAPL Recovery Data
Daily DNAPL Recovered (gallons)
Cumulative DNAPL Recovered (gallons)
35
30
25
20
15
10
5
0
500
450
400
350
300
250
200
150
100
50
0
12/1/09
6/1/10
12/1/10
6/1/11
12/1/11
6/1/12
12/1/12
6/1/13
12/1/13
6/1/14
12/1/14
6/1/15
12/1/15
6/1/16
12/1/16
6/1/17
12/1/17
6/1/18
12/1/18
Daily DNAPL
Cumulative DNAPL

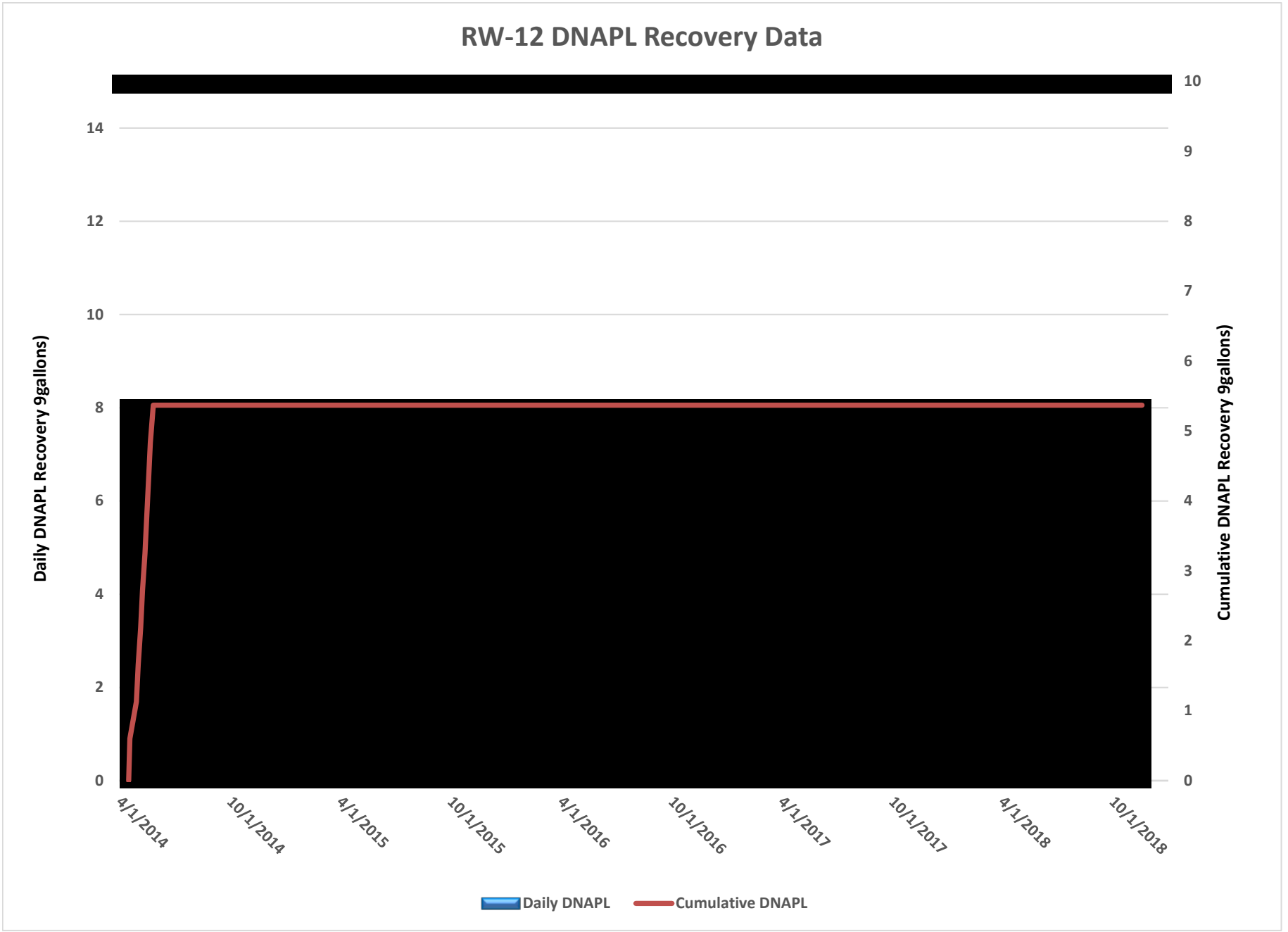

RW-5 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
10
9
8
7
6
5
4
3
2
1
0
500
450
400
350
300
250
200
150
100
50
0
2/1/10
8/1/10
2/1/11
8/1/11
2/1/12
8/1/12
2/1/13
8/1/13
2/1/14
8/1/14
2/1/15
8/1/15
2/1/16
8/1/16
2/1/17
8/1/17
2/1/18
8/1/18
Daily DNAPL
Cumulative DNAPL

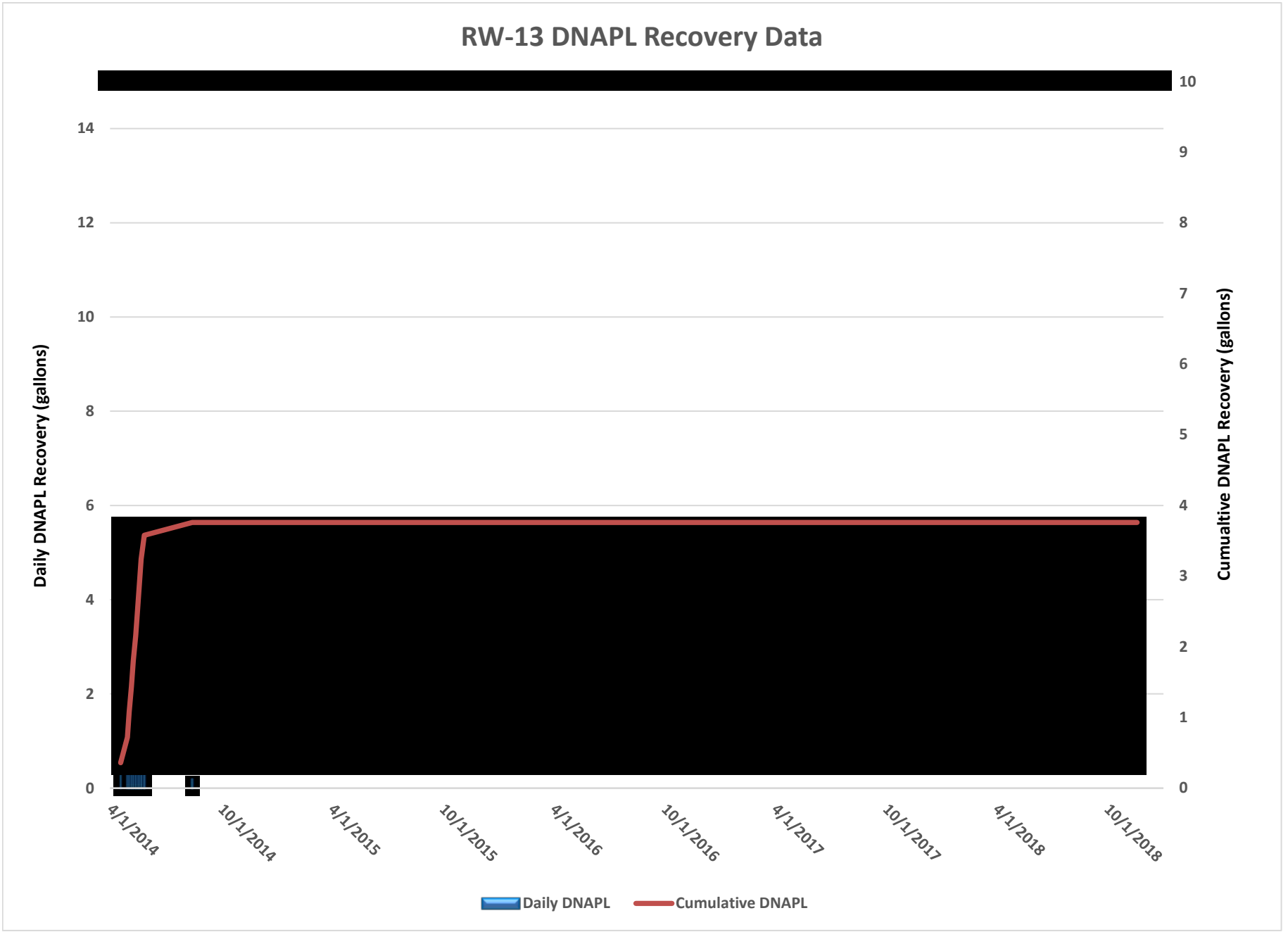

RW-7 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
0
1
2
3
4
5
6
7
0
10
20
30
40
50
60
70
80
90
100
12/1/10
6/1/11
12/1/11
6/1/12
12/1/12
6/1/13
12/1/13
6/1/14
12/1/14
6/1/15
12/1/15
6/1/16
12/1/16
6/1/17
12/1/17
6/1/18
12/1/18
Daily DNAPL
Cumulative DNAPL

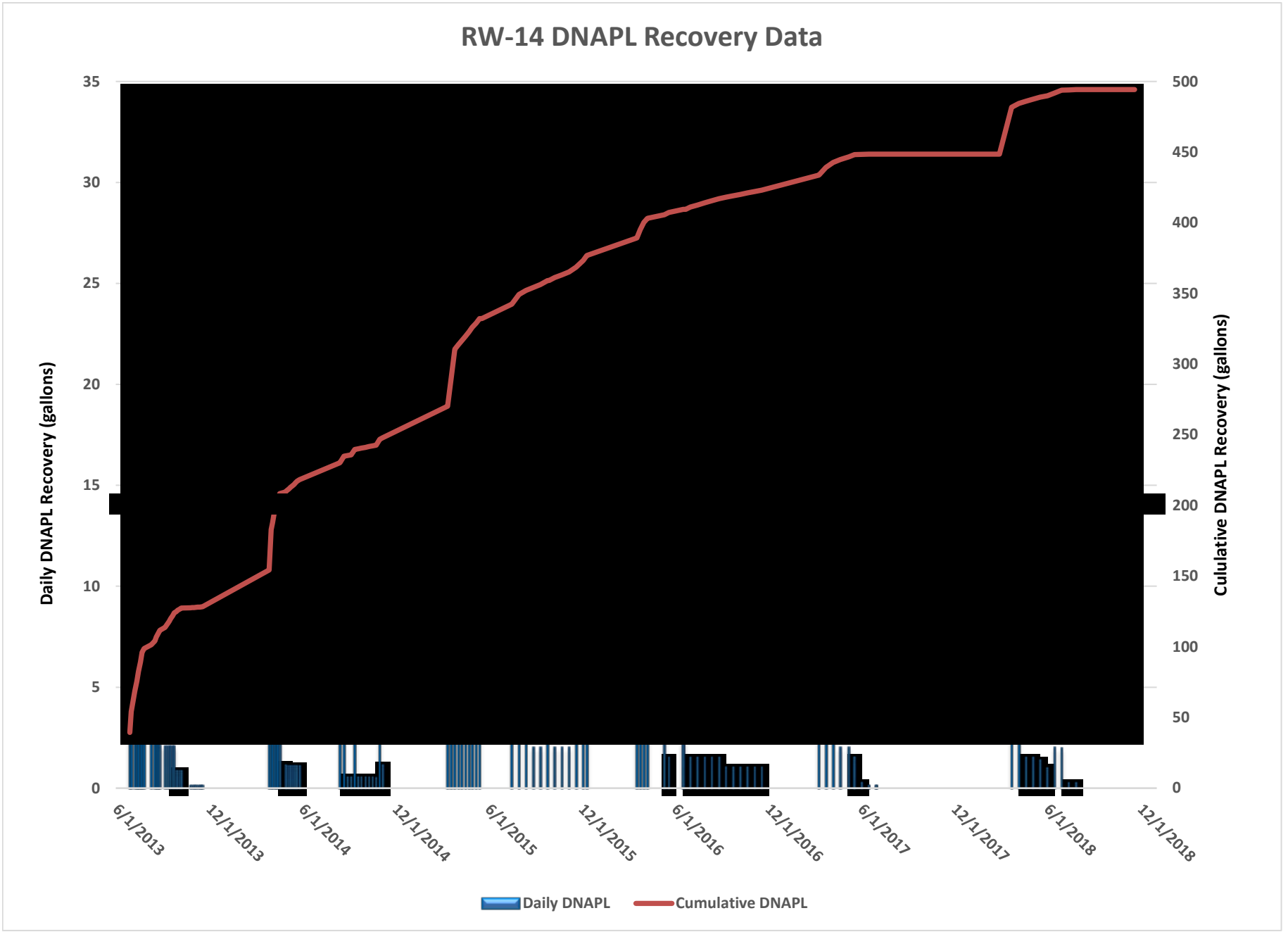

RW-8 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
35
30
25
20
15
10
5
0
2,500
2,000
1,500
1,000
500
0
5/1/2012
11/1/2012
5/1/2013
11/1/2013
5/1/2014
11/1/2014
5/1/2015
11/1/2015
5/1/2016
11/1/2016
5/1/2017
11/1/2017
5/1/2018
11/1/2018
Daily DNAPL
Cumulative DNAPL

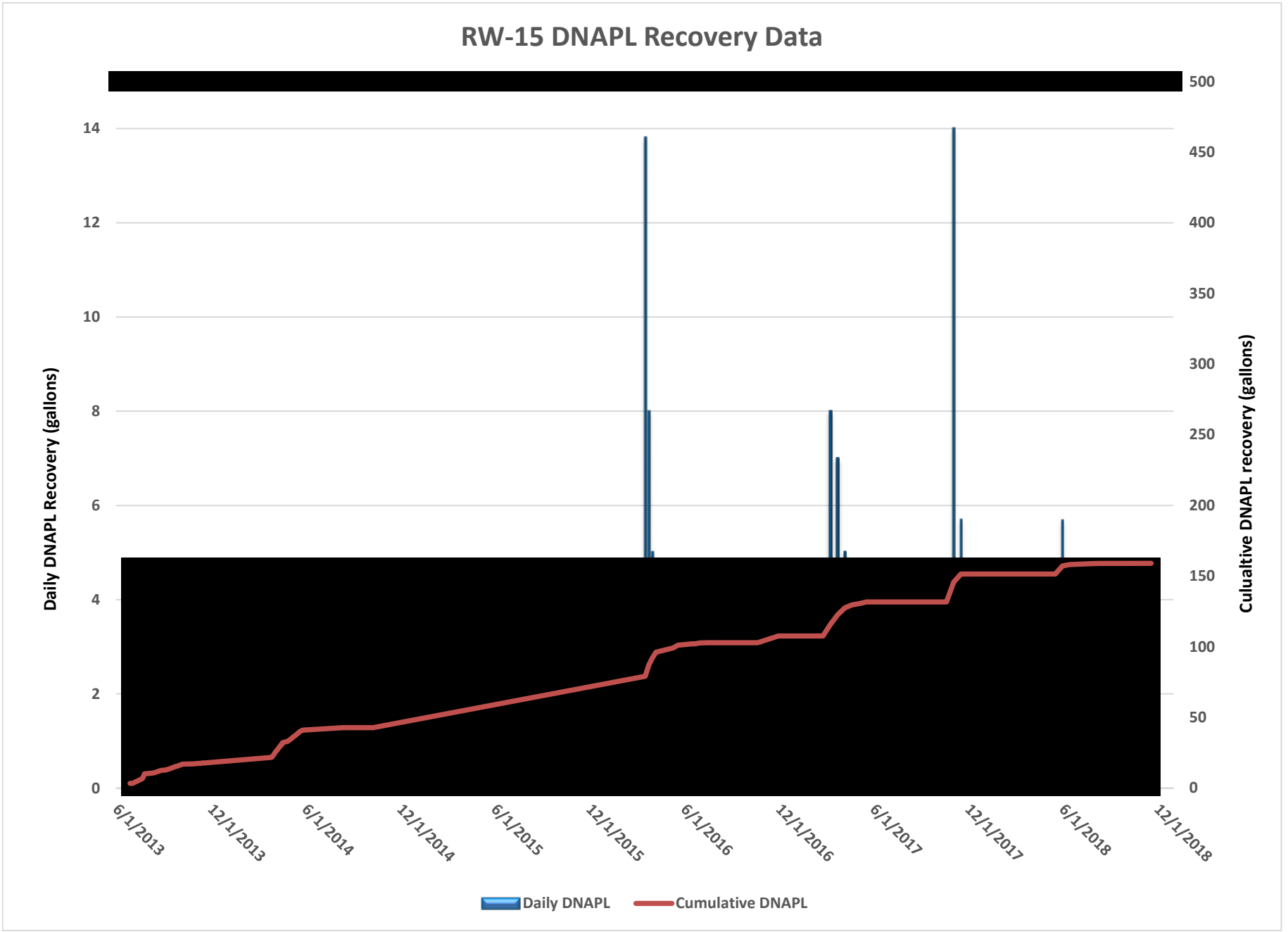

RW-9 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
20
18
16
14
12
10
8
6
4
2
0
1,000
900
800
700
600
500
400
300
200
100
0
10/1/2012
4/1/2013
10/1/2013
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
4/1/2018
10/1/2018
Daily DNAPL
Cumulative DNAPL

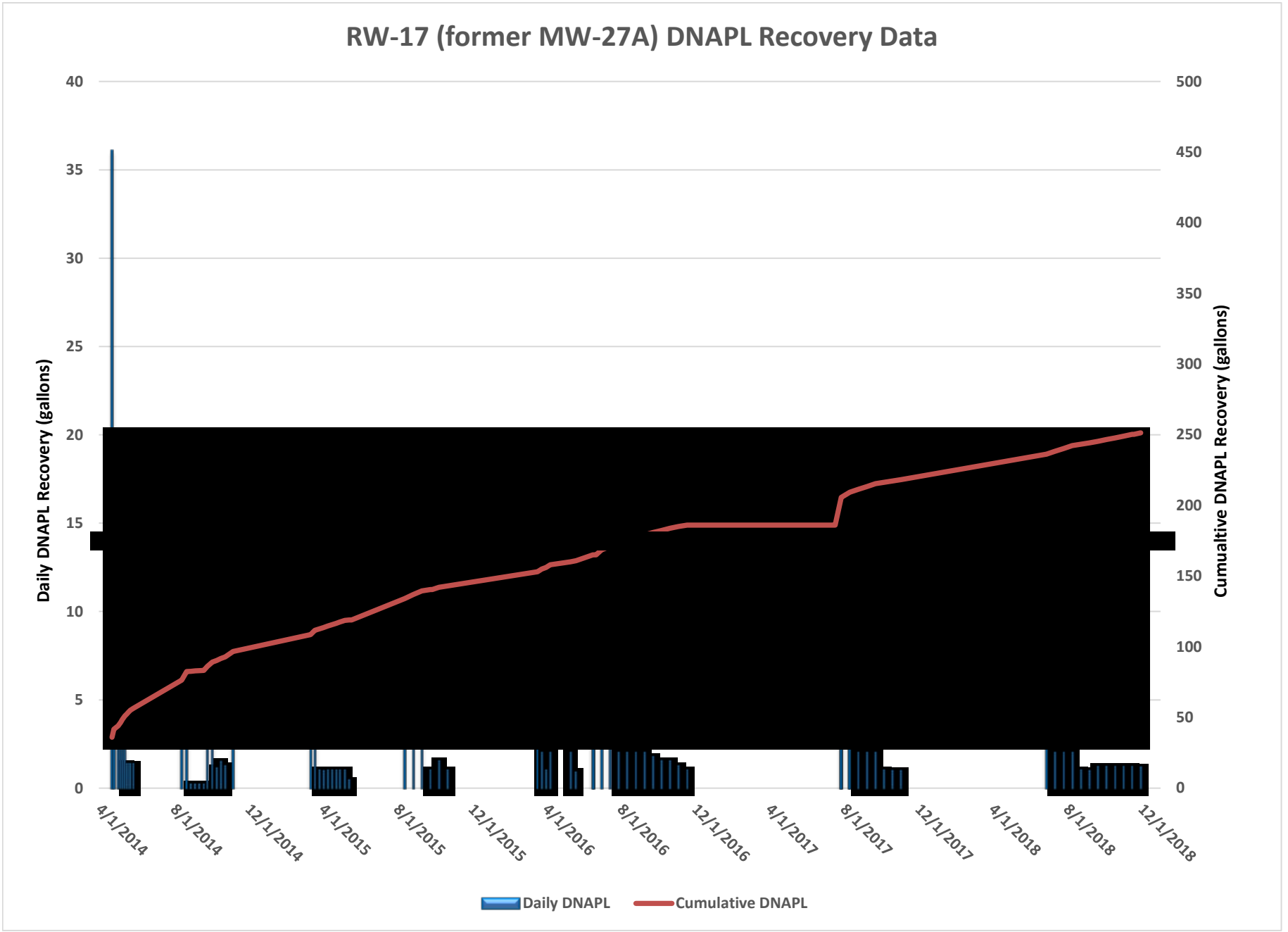

RW-10 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
20
18
16
14
12
10
8
6
4
2
0
500
450
400
350
300
250
200
150
100
50
0
3/1/2013
9/1/2013
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
3/1/2018
9/1/2018
Daily DNAPL
Cumulative DNAPL

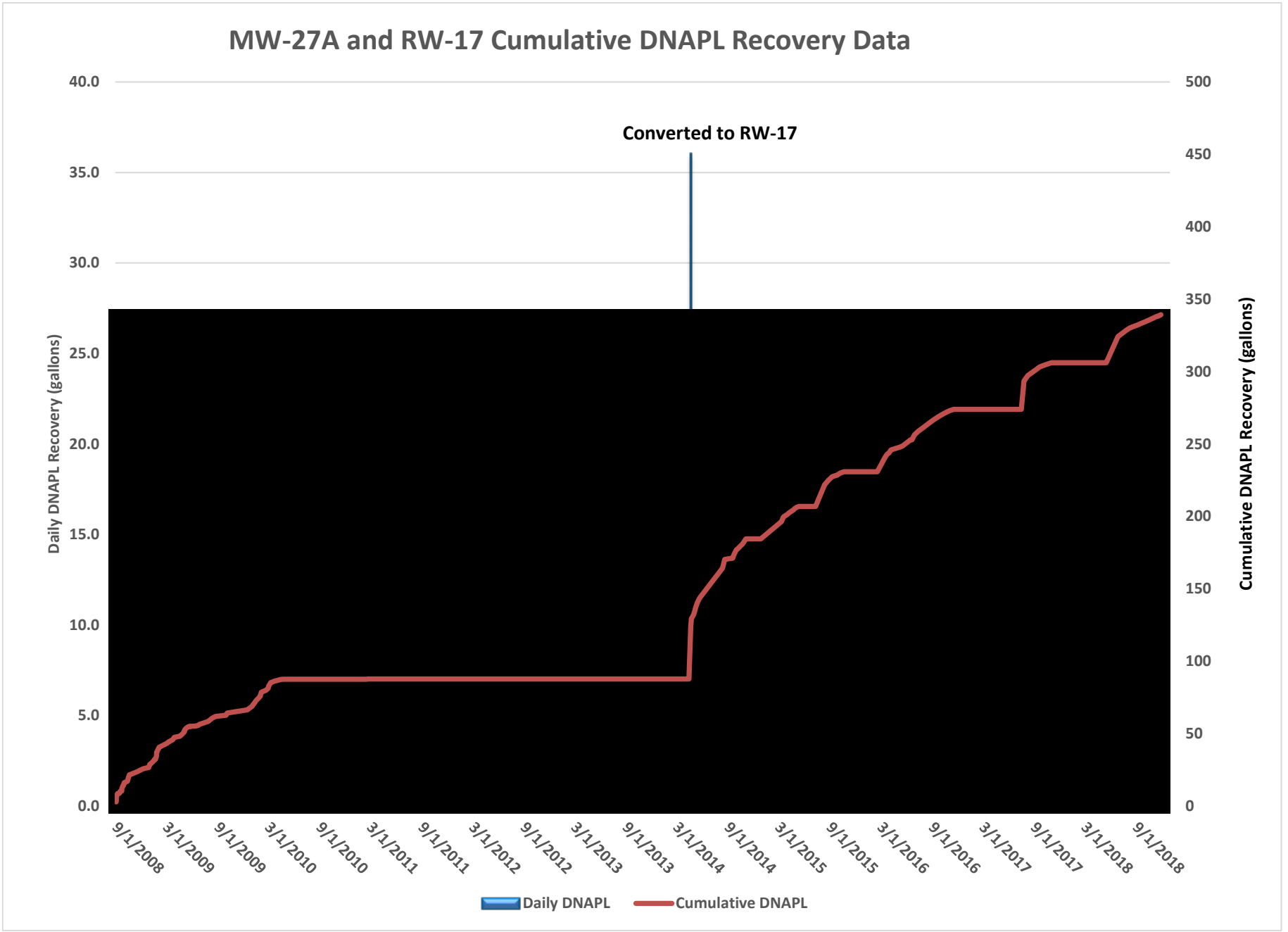

RW-12 DNAPL Recovery Data
Daily DNAPL Recovery 9gallons)
Cumulative DNAPL Recovery 9gallons)
0
2
4
6
8
10
12
14
0
1
2
3
4
5
6
7
8
9
10
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
4/1/2018
10/1/2018
Daily DNAPL
Cumulative DNAPL

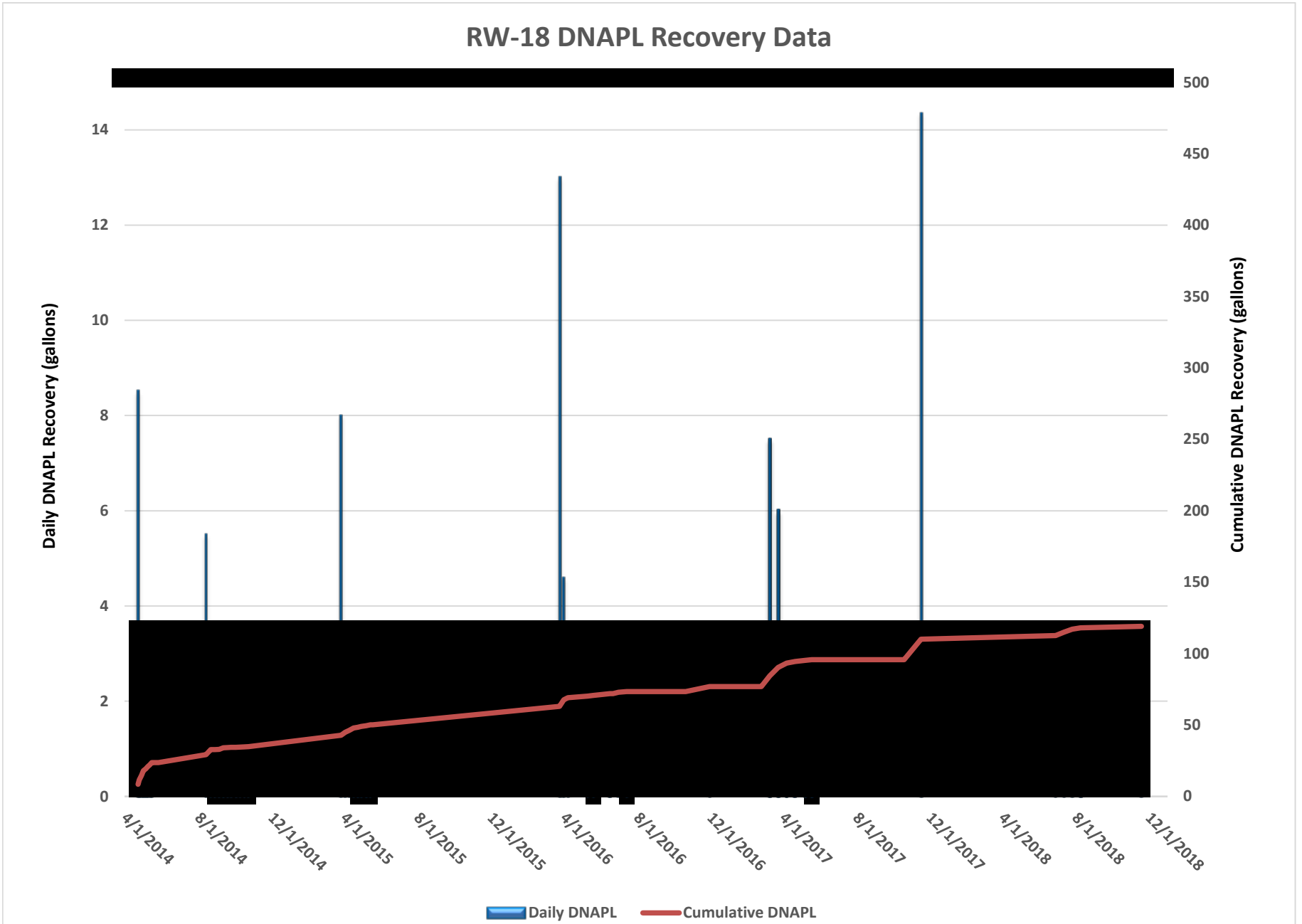

RW-13 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumualtive DNAPL Recovery (gallons)
14
12
10
8
6
4
2
0
10
9
8
7
6
5
4
3
2
1
0
4/1/2014
10/1/2014
4/1/2015
10/1/2015
4/1/2016
10/1/2016
4/1/2017
10/1/2017
4/1/2018
10/1/2018
Daily DNAPL
Cumulative DNAPL


RW-14 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cululative DNAPL Recovery (gallons)
35
30
25
20
15
10
5
0
500
450
400
350
300
250
200
150
100
50
0
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
12/1/2017
6/1/2018
12/1/2018
Daily DNAPL
Cumulative DNAPL


RW-15 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Culualtive DNAPL recovery (gallons)
0
2
4
6
8
10
12
14
0
50
100
150
200
250
300
350
400
450
500
6/1/2013
12/1/2013
6/1/2014
12/1/2014
6/1/2015
12/1/2015
6/1/2016
12/1/2016
6/1/2017
12/1/2017
6/1/2018
12/1/2018
Daily DNAPL
Cumulative DNAPL


RW-17 (former MW-27A) DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumualtive DNAPL Recovery (gallons)
0
5
10
15
20
25
30
35
40
0
50
100
150
200
250
300
350
400
450
500
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
12/1/2017
4/1/2018
8/1/2018
12/1/2018
Daily DNAPL
Cumulative DNAPL


MW-27A and RW-17 Cumulative DNAPL Recovery Data
Converted to RW-17
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
500
450
400
350
300
250
200
150
100
50
0
9/1/2008
3/1/2009
9/1/2009
3/1/2010
9/1/2010
3/1/2011
9/1/2011
3/1/2012
9/1/2012
3/1/2013
9/1/2013
3/1/2014
9/1/2014
3/1/2015
9/1/2015
3/1/2016
9/1/2016
3/1/2017
9/1/2017
3/1/2018
9/1/2018
Daily DNAPL
Cumulative DNAPL

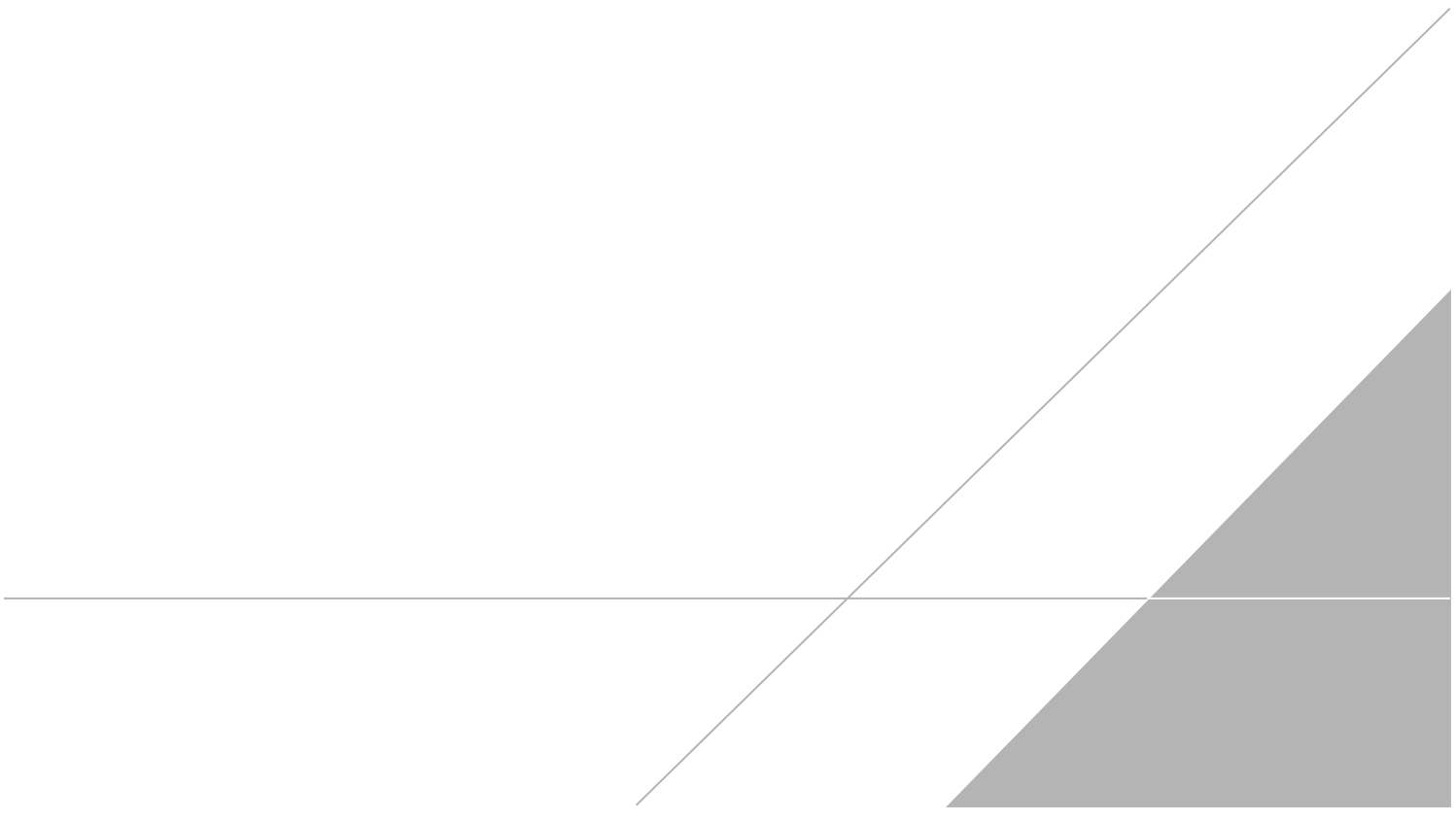

RW-18 DNAPL Recovery Data
Daily DNAPL Recovery (gallons)
Cumulative DNAPL Recovery (gallons)
0
2
4
6
8
10
12
14
0
50
100
150
200
250
300
350
400
450
500
4/1/2014
8/1/2014
12/1/2014
4/1/2015
8/1/2015
12/1/2015
4/1/2016
8/1/2016
12/1/2016
4/1/2017
8/1/2017
12/1/2017
4/1/2018
8/1/2018
12/1/2018
Daily DNAPL
Cumulative DNAPL

APPENDIX E

Various Permits Approvals

Army Corp of Engineers - NWP-38 Permit

No. LRL-2010-358-kjs



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P.O. BOX 59
LOUISVILLE, KENTUCKY 40201-0059
http://www.lrl.usace.army.mil/

May 18, 2010

Operations Division
Regulatory Branch (North)
ID No. LRL-2010-358-kjs

Mr. Paul Kurzanski
CSX Transportation, Incorporated
Jacksonville, Florida 32202

Dear Mr. Kurzanski:

This is in regard to an application submitted on your behalf by Arcadis, your agent, requesting authorization to excavate 435 linear feet of Clear Creek and 0.055 acre of emergent Wetland A, and temporarily fill 25 linear feet of an unnamed tributary to Clear Creek and 0.13 acre of emergent Wetland D for road access. The project purpose is to remove hazardous materials from a property located west of the Country Club Drive and South Walnut Street intersection in Bloomington, Monroe County, Indiana. The information supplied by you was reviewed to determine whether a Department of the Army (DA) permit will be required under the provisions of Section 404 of the Clean Water Act.

Your project is considered a discharge of dredged and/or fill material for the cleanup of hazardous materials. The project is authorized under the provisions of Nationwide General Permit (NWP) No. 38, Cleanup of Hazardous and Toxic Waste, as published in the Federal Register, March 12, 2007. Under the provisions of this authorization you must comply with the enclosed Terms for Nationwide Permit No. 38 and the Nationwide Permit General Conditions.

You must also obtain an individual State 401 Water Quality Certification (WQC) or waiver from the Indiana Department of Environmental Management (IDEM). You may contact them directly at the following address:

Indiana Department of Environmental Management
Office of Water Quality
Wetlands and Storm Water Section
MC-65-42 Room 1255
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

This decision is valid through May 18, 2012. The enclosed Compliance Certification should be signed and returned when the project is completed. If your project is not completed by May 18, 2012 or if your project is modified, you must contact us for another permit determination. A copy of this letter is being sent to Arcadis and to the IDEM.

If you have any questions, please contact this office by writing to the above address, ATTN: CELRL-OP-FN, or by calling me at (502) 315-6691. All correspondence pertaining to this matter should refer to our ID No. LRL-2010-358-kjs.

Sincerely,

Kimberly J. Simpson

Kimberly J. Simpson
Project Manager, North
Regulatory Branch

Enclosures

TERMS FOR NATIONWIDE PERMIT No. 38
CLEANUP OF HAZARDOUS AND TOXIC WASTE

Specific activities required to effect the containment, stabilization, or removal of hazardous or toxic waste materials that are performed, ordered, or sponsored by a government agency with established legal or regulatory authority provided the permittee notifies the District Engineer in accordance with the ``Notification'' General Condition. For discharges in special aquatic sites, including wetlands, the notification must also include a delineation of affected special aquatic sites, including wetlands. Court ordered remedial action plans or related settlements are also authorized by this NWP. This NWP does not authorize the establishment of new disposal sites or the expansion of existing sites used for the disposal of hazardous or toxic waste. Activities undertaken entirely on a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site by authority of CERCLA as approved or required by EPA, are not required to obtain permits under section 404 of the CWA or section 10 of the Rivers and Harbors Act. (Sections 10 and 404)

Compliance Certification:

Permit Number: LRL-2010-358-kjs

Name of Permittee: CSX Transportation, Inc.

Date of Issuance: May 18, 2010

Upon completion of the activity authorized by this permit and any mitigation required by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers
CELRL-OP-FN
P.O. Box 59
Louisville, Kentucky 40201

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

_____ _____

Signature of Permittee Date

ADDRESSES FOR COORDINATING AGENCIES

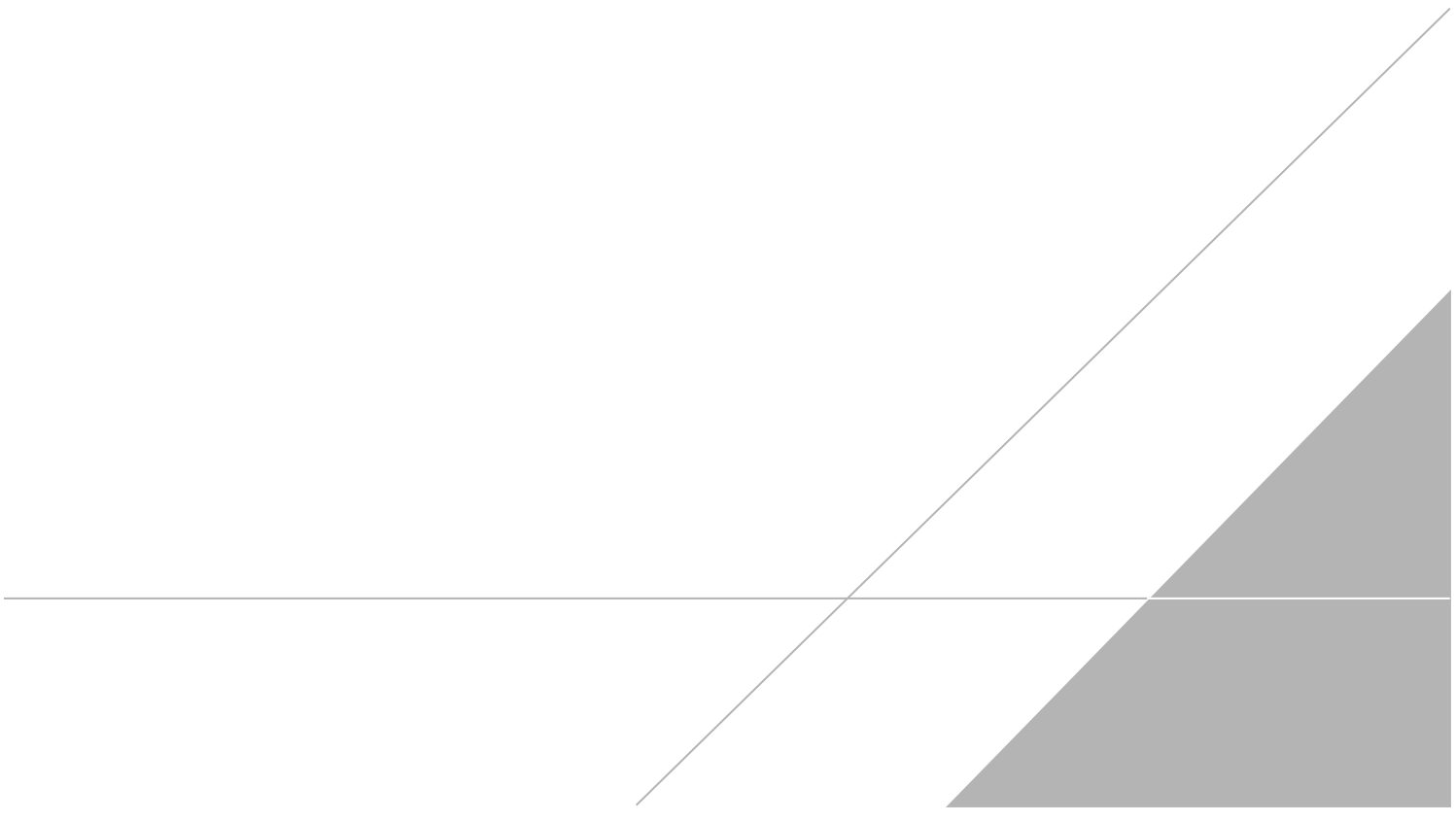
Mr. Steve Sharp
Arcadis
251 East Ohio Street, Suite 800
Indianapolis, IN 46204

Mr. David Carr
Indiana Department of Environmental Management
Office of Water Quality
Wetlands and Storm Water Section
MC-65-42, Room 1255
100 North Senate Avenue
Indianapolis, IN 46204-2251

Mr. Brian Smith
Indiana Department of Environmental Management
Office of Land Quality
Emergency Response Section
100 North Senate Avenue
Indianapolis, IN 46204-2251

IDEM 401 WQC Permit

No. 2011-147-53-DDC-A



IDEM

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

July 18, 2011

VIA CERTIFIED MAIL 91 7190 0005 2710 0015 2206

Mr. Paul J. Kurzanski
CSX Transportation, Inc.
500 Water Street, Suite J275
Jacksonville, FL 32202

Dear Mr. Kurzanski:

Re: Section 401 Water Quality Certification
Project: IDEM Voluntary Remediation
Program No. 9415830
IDEM No.: 2011-147-53-DDC-A
COE No.: LRL-2010-358-kjs
County: Monroe

The Office of Water Quality has reviewed your application for Section 401 Water Quality Certification dated March 11, 2011, and received March 16, 2011. According to the application, you propose to impact approximately 435 linear feet of Clear Creek, with the removal and grading of approximately 1,262 square feet of earthen material and impact 0.071 acre of emergent and scrub-shrub wetlands with the installation of timber mats. You will also install a temporary culvert within an UNT to Clear Creek, as temporary access. Upon completion, all temporary impacts shall be restored to pre-construction contours and stabilized with a native seed mix and geo-textile blankets. In addition, you shall replace any impacted woody riparian corridor with the implementation of a native woody riparian planting plan. The purpose of the work is to remediate residual creosote contaminants, as part of an IDEM Voluntary Remediation project. The project is located in Section 9, Township 8 North, Range 1 West, Bloomington USGS Quad, Monroe County.

Based on available information, it is the judgment of this office that the proposed project will comply with the applicable provisions of 327 IAC 2 and Sections 301, 302, 303, 306, and 307 of the Clean Water Act if you comply with the conditions set forth below. Therefore, subject to the following conditions, the Indiana Department of Environmental Management (IDEM) hereby grants Section 401 Water Quality Certification for the project described in your application received March 16, 2011, and modifications received May 24, 2011. Any changes in project design or scope not

detailed in the application described above or modified by the conditions below are not authorized by this certification.

CONDITIONS OF THE SECTION 401 WATER QUALITY CERTIFICATION:

You shall:

1) Deposit any dredged material in a contained upland disposal area to prevent sediment runoff to any waterbody.

2) Install erosion control methods prior to any soil disturbance to prevent soil from leaving the construction site. Appropriate erosion control methods include, but are not limited to, straw bale barriers, silt fencing, erosion control blankets, phased construction sequencing, and earthen berms. Monitor and maintain erosion control structures and devices regularly, especially after rain events, until all soils disturbed by construction activities have been permanently stabilized.

3) Install silt fence or other erosion control measures around the perimeter of any wetlands and/or other waterbodies to remain undisturbed at the project site.

4) Allow the commissioner or an authorized representative of the commissioner (including an authorized contractor), upon the presentation of credentials:

   a) to enter your property, including impact and mitigation site(s);
   b) to have access to and copy at reasonable times any records that must be kept under the conditions of this certification;
   c) to inspect, at reasonable times, any monitoring or operational equipment or method; collection, treatment, pollution management or discharge facility or device; practices required by this certification; and any mitigation wetland site;
   d) to sample or monitor any discharge of pollutants or any mitigation site.

5) Complete all approved discharges no later than two (2) years of the date of issuance of this Section 401 Water Quality Certification. You may request a one (1) year extension to the Section 401 Water Quality Certification by submitting a written request ninety (90) days prior to the deadline stated above. The written request shall contain an account of which discharges and mitigation have been completed and list the reasons an extension is requested.

6) Implement the restoration plan as described in the application received March 16, 2011, and correspondence from ARCADIS dated May 24, 2011 (referred to collectively hereinafter as the "restoration plan"), and as modified by the conditions of this certification.

7) Submit as-built plans within one year of the completion of the remediation project. The as-built plans shall include all impacted stream(s) and wetland(s) areas; narrative of work performed within the water bodies, along with details of all restored areas. Clearly depict impacts to riparian corridors and the implementation of woody riparian planting plan. Include details on stream stabilization methods utilized, upon completion of restoration efforts. Deviations from the approved restoration plan must be highlighted and explained.

8) Allow no construction equipment, temporary run-arounds, coffer dams, temporary causeways, temporary crossings, or other such structures to enter or be constructed within Clear Creek, unless specifically stated, depicted, or detailed in the aforementioned correspondence and project plans. A modification of this Section 401 Water Quality Certification is required from this office if any of the aforementioned items are needed for project construction.

9) Stockpile contaminant free cobble and boulder substrate excavated during the stream remediation project, and replace to pre-impact contours upon completed .

10) Remove any temporary causeway or other approved temporary structures used to facilitate construction or access upon completion of construction activities.

This certification does not relieve you of the responsibility of obtaining any other permits or authorizations that may be required for this project or related activities from IDEM or any other agency or person. You may wish to contact the Indiana Department of Natural Resources at 317-232-4160 (toll free at 877-928-3755) concerning the possible requirement of natural freshwater lake or floodway permits. In addition, you may wish to contact IDEM's Storm Water Permits Section at 317-233-1864 concerning the possible need for a 327 IAC 15-5 (Rule 5) permit if you plan to disturb greater than one (1) acre of soil during construction.

This certification does not:

(1) authorize impacts or activities outside the scope of this certification;
(2) authorize any injury to persons or private property or invasion of other private rights, or any infringement of federal, state or local laws or regulations;
(3) convey any property rights of any sort, or any exclusive privileges;
(4) preempt any duty to obtain federal, state or local permits or authorizations required by law for the execution of the project or related activities; or
(5) authorize changes in the plan design detailed in the application.

Failure to comply with the terms and conditions of this Section 401 Water Quality Certification may result in enforcement action against you. If an enforcement action is pursued, you could be assessed up to $25,000 per day in civil penalties. You may also be subject to criminal liability if it is determined that the Section 401 Water Quality Certification was violated willfully or negligently.

This certification is effective eighteen (18) days from the mailing of this notice unless a petition for review and a petition for stay of effectiveness are filed within this 18-day period. If a petition for review and a petition for stay of effectiveness are filed within this period, any part of the certification within the scope of the petition for stay is stayed for fifteen (15) days, unless or until an Environmental Law Judge further stays the certification in whole or in part.

This decision may be appealed in accordance with IC 4-21.5, the Administrative Orders and Procedures Act. The steps that must be followed to qualify for review are:

1) You must petition for review in writing that states facts demonstrating that you are either the person to whom this decision is directed, a person who is aggrieved or adversely affected by the decision, or a person entitled to review under any law.

2) You must file the petition for review with the Office of Environmental Adjudication (OEA) at the following address:

   Office of Environmental Adjudication
   100 North Senate Avenue
   IGCN Room N501
   Indianapolis, IN 46204

3) You must file the petition within eighteen (18) days of the mailing date of this decision. If the eighteenth day falls on a Saturday, Sunday, legal holiday, or other day that the OEA offices are closed during regular business hours, you may file the petition the next day that the OEA offices are open during regular business hours. The petition is deemed filed on the earliest of the following dates: the date it is personally delivered to OEA; the date that the envelope containing the petition is postmarked if it is mailed by United States mail; or, the date it is shown to have been deposited with a private carrier on the private carrier's receipt, if sent by private carrier.

Identifying the certification, decision, or other order for which you seek review by number, name of the applicant, location, or date of this notice will expedite review of the petition.

Note that if a petition for review is granted pursuant to IC 4-21.5-3-7, the petitioner will, and any other person may, obtain notice of any prehearing conferences, preliminary hearings, hearings, stays, and any orders disposing of the proceedings by requesting copies of such notices from OEA.

If you have procedural questions regarding filing a petition for review you may contact the Office of Environmental Adjudication at 317-232-8591.

If you have any questions about this certification, please contact David Carr, Project Manager, of my staff at 317-234-6350, or you may contact the Office of Water Quality through the IDEM Environmental Helpline (1-800-451-6027).

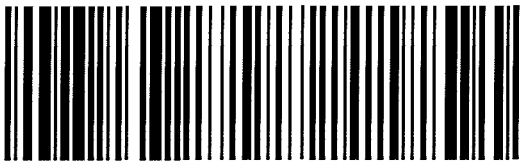
Sincerely,

Martha Clark Mettler

Martha Clark Mettler
Deputy Assistant Commissioner
Office of Water Quality

cc: Kimberly Simpson, USACE-Louisville Regulatory
Mike Litwin, USFWS
Danny Gautier, IDNR

IDEM
Karla Kindrick
100 NORTH SENATE AVE.
INDIANAPOLIS IN 46204



91 7190 0005 2710 0015 2206

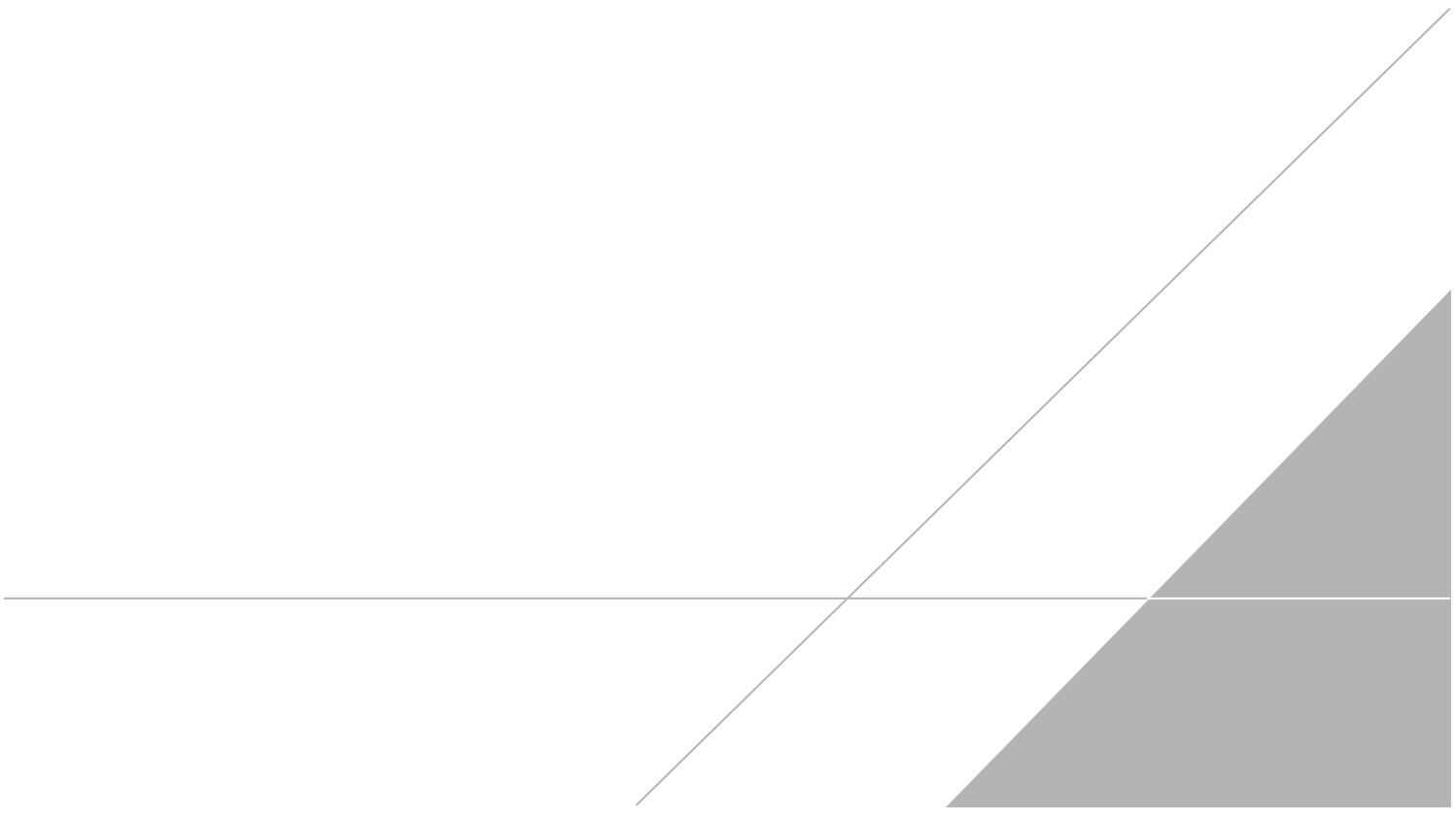
RECEIVED
JUL 2 0 2011
ENVIRONMENTAL

Paul J Kurzanski
CSX Transportation Inc
500 Water St
Ste J275
Jacksonville FL 322024423

Z900000113288

IDNR - Construction in a Floodway Permit

No. FW-25726



STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

CERTIFICATE OF APPROVAL
CONSTRUCTION IN A FLOODWAY

APPLICATION # : FW-25726

STREAM : Clear Creek

APPLICANT : CSX Transportation Incorporated
Paul J Kurzanski
500 Water Street
J 275
Jacksonville, FL 32202-4423

MAILED JAN 14 2011

AGENT : Arcadis G and M Incorporated
Steve Sharp
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

AUTHORITY : IC 14-28-1 with 312 IAC 10

DESCRIPTION : Approximately 8,400 cubic yards of soil will be excavated from the floodway and transported offsite. All disturbed areas will be completely restored including replacement of the removed soil with clean topsoil. The excavated areas will then be returned to existing grade and seeded. Temporary roadways will be constructed to allow access to existing and proposed monitoring wells on site. The roadways will be constructed by placing 4" of 3/4" crushed stone at grade. The temporary roadways will be completely removed upon completion of the project. Also, sediment will be removed from the streambed in 2 locations along clear creek. The excavated sediment will be dewatered and disposed by a licensed facility. A 3' wide blockade will be constructed to divert stream flow around the areas of sediment removal to allow for a dry work zone. In addition, a 24' long 36" diameter reinforced concrete pipe culvert will be placed in an Unnamed Tributary to provide an equipment crossing. The proposed culvert will be covered with 30 cubic yards of aggregate and will be completely removed upon completion. Details of the project are contained in information and plans received at the Division of Water on April 5, 2010, August 12, 2010, October 25, 2010, October 28, 2010, November 24, 2010, November 29, 2010, December 14, 2010, January 10, 2011 and January 13, 2011.

LOCATION : DOWNSTREAM: Beginning approximately 350' west of the intersection of South Walnut Street and West Country Club Drive and extending 1800' north, 1600' south, and 900' west near Bloomington, Perry Township, Monroe County
S½, SW¼, SW¼, Section 9, T 8N, R 1W, Bloomington Quadrangle
UTM Coordinates: Downstream 4331496 North, 540167 East
UPSTREAM: Monroe County

APPROVED BY : James J. Hebenstreit

James J. Hebenstreit, PE, Assistant Director
Division of Water

APPROVED ON : January 14, 2011

Attachments: Notice Of Right To Administrative Review
General Conditions
Special Conditions
Service List

NOTICE OF RIGHT TO ADMINISTRATIVE REVIEW

APPLICATION #: FW- 25726

This signed document constitutes the issuance of a permit by the Department of Natural Resources, subject to the conditions and limitations stated on the pages entitled "General Conditions" and "Special Conditions".

The permit or any of the conditions or limitations which it contains may be appealed by applying for administrative review. Such review is governed by the Administrative Orders and Procedures Act, IC 4-21.5, and the Department's rules pertaining to adjudicative proceedings, 312 IAC 3-1.

In order to obtain a review, a written petition must be filed with the Division of Hearings within 18 days of the mailing date of this notice. The petition should be addressed to:

Mr. Stephen L. Lucas, Director
Division of Hearings
Indiana Government Center North, Room N501A
100 North Senate Avenue
Indianapolis, Indiana 46204

The petition must contain specific reasons for the appeal and indicate the portion or portions of the permit to which the appeal pertains.

If an appeal is filed, the final agency determination will be made by the Natural Resources Commission following a legal proceeding conducted before an Administrative Law Judge. The Department of Natural Resources will be represented by legal counsel.

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

GENERAL CONDITIONS

APPLICATION #: FW- 25726

(1) If any archaeological artifacts or human remains are uncovered during construction, federal law and regulations (16 USC 470, et seq.; 36 CFR 800.11, et al) and State Law (IC 14-21-1) require that work must stop and that the discovery must be reported to the Division of Historic Preservation and Archaeology within 2 business days.

Division of Historic Preservation and Archaeology
Room W274
402 West Washington Street
Indianapolis, IN 46204

Telephone: (317) 232-1646, FAX: (317) 232-8036

(2) This permit must be posted and maintained at the project site until the project is completed.

(3) This permit does not relieve the permittee of the responsibility for obtaining additional permits, approvals, easements, etc. as required by other federal, state, or local regulatory agencies. These agencies include, but are not limited to:

Agency	Telephone Number
Monroe County Drainage Board	(812) 349-2570
US Army Corps of Engineers, Louisville District	(502) 315-6686
Indiana Department of Environmental Management	(317) 233-8488 or (800) 451-6027
Local city or county planning or zoning commission	

(4) This permit must not be construed as a waiver of any local ordinance or other state or federal law.

(5) This permit does not relieve the permittee of any liability for the effects which the project may have upon the safety of the life or property of others.

(6) This permit may be revoked by the Department of Natural Resources for violation of any condition, limitation or applicable statute or rule.

(7) This permit shall not be assignable or transferable without the prior written approval of the Department of Natural Resources. To initiate a transfer contact:

Mr. Michael W. Neyer, PE, Director
Division of Water
Room W264
402 West Washington Street
Indianapolis, IN 46204

Telephone: (317) 232-4160, Toll Free: (877) 928-3755
FAX: (317) 233-4579

(8) The Department of Natural Resources shall have the right to enter upon the site of the permitted activity for the purpose of inspecting the authorized work.

(9) The receipt and acceptance of this permit by the applicant or authorized agent shall be considered as acceptance of the conditions and limitations stated on the pages entitled "General Conditions" and "Special Conditions".

DEPARTMENT OF NATURAL RESOURCES

SPECIAL CONDITIONS

APPLICATION #: FW- 25726

PERMIT VALIDITY : This permit is valid for 24 months from the "Approved On" date shown on the first page. If work has not been initiated by January 14, 2013 the permit will become void and a new permit will be required in order to continue work on the project.

This permit becomes effective 18 days after the "MAILED" date shown on the first page. If both a petition for review and a petition for a stay of effectiveness are filed before this permit becomes effective, any part of the permit that is within the scope of the petition for stay is stayed for an additional 15 days.

CONFORMANCE : Other than those measures necessary to satisfy the "General Conditions" and "Special Conditions", the project must conform to the information received by the Department of Natural Resources on: April 5, 2010, August 12, 2010, October 25, 2010, October 28, 2010, November 24, 2010, November 29, 2010, December 14, 2010, January 10, 2011 and January 13, 2011. Any deviation from the information must receive the prior written approval of the Department.

Number	Special Condition
(1)	minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush
(2)	do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife
(3)	do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30
(4)	appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized
(5)	plant five trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height
(6)	revegetate all bare and disturbed areas with a mixture of native grasses, sedges and wildflowers, and native shrub and hardwood tree species as soon as possible upon completion; provide the selected native herbaceous seed mix list to the south region biologist for review prior to planting
(7)	plant all tree-planting mitigation areas with 1" to 2" diameter-at-breast height (dbh) trees; no shrubs or vines shall be substituted for 1" to 2" dbh trees
(8)	restore all excavated areas landward of the top of the banks to the pre-existing elevations
(9)	seed and protect disturbed slopes and streambanks that are 3:1 or steeper with heavy-duty biodegradable erosion control blankets (follow manufacturer's recommendation for installation); seed and apply mulch on all other disturbed areas
(10)	implement the mitigation plan received at the Division of Water on October 28, 2010 within 12 months of project initiation

DEPARTMENT OF NATURAL RESOURCES

SPECIAL CONDITIONS

APPLICATION #: FW- 25726

(11) the site must be monitored for the survival of the plantings for a minimum of three years; a report must be submitted to the South Region Environmental Biologist at the Division of Fish and Wildlife, 402 W. Washington St., Room W273, Indianapolis, IN 46204-2781 by December 31 of each year to monitor the initiation, progress, and success of the mitigation site; the report must include appropriate pictures of vegetative plantings; a narrative must describe the activity accomplished to date, acres planted, number planted, list of species planted on site, and estimated survival (volunteers should not be included in survival counts, only planted specimens); reports must be submitted each year, even if work has not been initiated on site, and continue for a maximum of five years after work initiation, or until the mitigation site is complete and determined to be successful; if the mitigation site is not successful after five years after work initiation, the permit will be considered in violation, and another plan must be submitted for approval

(12) the mitigation tree plantings must have a minimum survival of 75% of planted material at the end of the monitoring period or additional trees must be installed to meet the minimum survival (volunteer species shall not be included in the survival rate of planted trees and shrubs)

(13) place "Do Not Mow, Cut or Spray" signs along the edge of the mitigation/revegetation areas (one sign for every 200 feet of edge) to protect the restored/replanted areas from future disturbance

(14) except for the material used as backfill as shown on the above referenced project plans on file at the Division of Water, place all excavated material landward of the floodway *

(15) do not leave felled trees, brush, or other debris in the floodway *

(16) upon completion of the project, remove all construction debris from the floodway *

(17) size and/or anchor the riprap to resist displacement by current or wave action

(18) keep the culvert waterway opening within the scope of this project free of debris and sediment at all times

(19) upon completion of the project, completely remove the temporary crossing and its appurtenances from the floodway *

(20) * NOTE: for regulatory purposes, the floodway is defined as that shown on PANEL 40 of the City of Bloomington Flood Insurance Rate Map, dated June 17, 1991

DEPARTMENT OF NATURAL RESOURCES

SERVICE LIST

APPLICATION #: FW- 25726

CSX Transportation Incorporated
Paul J Kurzanski
500 Water Street
J 275
Jacksonville, FL 32202-4423

Arcadis G and M Incorporated
Steve Sharp
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

William and Peggy Barrow
2810 Limestone Drive
Bloomington, IN 47403-4412

David Brown
South 2631 Garrison Chapel Road
Bloomington, IN 47403-9228

CRTM Realty
2200 South Walnut Street
Bloomington, IN 47401-6520

Georgia M Deckard
121 Hoosier Street
Bloomington, IN 47403-4403

Terry Duffin
2800 Limestone Drive
Bloomington, IN 47403-4412

Frank Guthrie
2814 Limestone Drive
Bloomington, IN 47403-4412

John Horne
2804 Limestone Drive
Bloomington, IN 47403-4412

Indiana Limestone Company Incorporated
PO Box 1550
Bedford, IN 47421

Bay and Andrea J. Kelley
2818 Limestone Drive
Bloomington, IN 47403-4412

Monroe County Drainage Board
County Surveyor
Health Services Building 2nd Floor
119 West 7th Street
Bloomington, IN 47404-3989

SCP 2007-C27-034 LLC
ICVS Drive
woonsocket, RI 02895

Ashael L Summitt
8319 Mockingabaird Lane
Indianapolis, IN 46256-1712

US Army Corps of Engineers, Louisville District
Louisville District Office
PO Box 59
Louisville, KY 40201-0059

Frank Varlandingham
3281 Carowinds Court
Bloomington, IN 47401-9589

Walnut Station Partnership
South 1128 College Mall Road
Bloomington, IN 47401-6178

William Alan Workman
2750 South Walnut Street
Bloomington, IN 47401-7301

Bloomington Plan Commission
Municipal Building
Box 100
Bloomington, IN 47401

Indiana Department of Natural Resources
Division of Law Enforcement
4850 South State Road 446
Bloomington, IN 47401-9165

Monroe County Area Plan Commission
Monroe County Court House Suite 306
Bloomington, IN 47401

Monroe County Soil and Water Conservation District
1931 Liberty Drive
Bloomington, IN 47403-3232

Ms. Linda P Thompson
Senior Environmental Planner Suite 160
City of Bloomington
Showers Center City Hall PO Box 100
Bloomington, IN 47402

Staff Assignment:

Administrative	: Joseph Young, CFM
Technical	: Joseph Young, CFM
Environmental	: Christie L. Stanifer
Fish and Wildlife	: Daniel Gautier

DNR Indiana Department of Natural Resources

Mitchell E. Daniels, Jr., Governor
Robert E. Carter, Jr., Director
Division of Water
402 W. Washington Street
Room W264
Indianapolis, IN 46204-2641
Phone (317) 232-4160
Toll-free (877) 928-3755
Fax (317) 233-4579
www.in.gov/dnr/water/

April 05, 2012
Basin 21

ARCADIS U.S., Inc
Randall L. Woodruff
251 East Ohio Street, Suite 800
Indianapolis, IN 46204

MAILED APR 05 2012

Re: CTS-3288 – FW-25726
Clear Creek – Monroe County

Dear Mr. Woodruff:

Thank you for your March 23, 2012 letter requesting approval to construct a temporary access road needed to complete work permitted under FW-25726. Based on information received at the Division of Water, the project site is located in Section 16, Township 8 North, Range 1 West, Approximately 230' west of the Country Club Road stream crossing, near Bloomington, Monroe County.

Department Staff has completed their review of your request and determined that this amendment will have no adverse cumulative effect on the efficiency or capacity of the floodway nor will it pose an unreasonable hazard to the safety of life or property, or adversely affect the fish, wildlife, or botanical resources. Therefore, approval is granted for the proposed revision to the original permit, provided the conditions listed on the original permit and the condition below are met:

- obtain the prior written approval of the Department for any additional construction, excavation or filling in or on the floodway * beyond the scope of the project

  * Note: for regulatory purposes, the floodway is defined as that shown on PANEL 143 of the City of Bloomington Flood Insurance Rate Map, dated December 17, 2010

This letter should be displayed at the project site. The Division of Water will place a copy of this letter in the file to be retained as a permanent record. **Please be aware that all conditions of the permit must be met in order for your project to be in compliance.**

You should not construe this letter to be a local building permit, nor is it a waiver of the provisions of any local building or zoning ordinances. This letter does not relieve you of the responsibility of obtaining permits, approvals, easements etc. as required by other federal, state, and local agencies.

Thank you for this opportunity to be of assistance. We appreciate your interest in providing safe floodplain development. If you have any further questions concerning this matter, please contact the Technical Services Section either at our toll-free number, 1-877-928-3755, or at 317-232-4160.

Sincerely,

James J. Hebenstreit, PE
Assistant Director
Division of Water

Enclosures: March 23, 2012 request
FW-25726 Certificate of Approval
cc: Service list for FW-25726

An Equal Opportunity Employer
Printed on Recycled Paper

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

NOTICE OF RIGHT TO ADMINISTRATIVE REVIEW

File No. CTS-3288

The letter or any of the conditions, limitations, and amendments which it contains may be appealed by applying for administrative review. Such review is governed by the Administrative Orders and Procedures Act, IC 4-21.5, and the Department's rules pertaining to adjudicative proceedings, 312 IAC 3-1.

In order to obtain a review, a written petition must be filed with the Division of Hearings within 18 days of the mailing date of this notice. The petition should be addressed to:

Mr. Stephen L. Lucas, Director
Division of Hearings
Indiana Government Center North, Room N501A
100 North Senate Avenue
Indianapolis, IN 46204

The petition must contain specific reasons for the appeal and indicate the portion or portions of the letter to which the appeal pertains.

If an appeal is filed, the final agency determination will be made by the Natural Resources Commission following a legal proceeding conducted before an Administrative Law Judge. The Department of Natural Resources will be represented by legal counsel.

ARCADIS

Infrastructure Water Environment Buildings

ARCADIS U.S., Inc.
251 East Ohio Street
Suite 800
Indianapolis
Indiana 46204
Tel 317 231 6500
Fax 317 231 6514
www.arcadis-us.com

ENVIRONMENT

Mr. Joseph Young
Indiana Department of Natural Resources
553 East Miller Drive
Bloomington, IN 47401

Subject:
Cover Letter- Addendum to Construction in a Floodway Permit No. FW-25726
240 W. Country Club Drive
Bloomington, Indiana

Date:
23 March 2012

Contact:
Randall L. Woodruff

Phone:
317-231-6500

Email:
randall.woodruff@arcadis-us.com

Our ref:
IN000072.0050.0001

Dear Mr. Young:

Enclosed is an addendum to the existing Construction in a Floodway Permit No. FW-25726, that was issued on January 14, 2011. This addendum is being submitted by ARCADIS on behalf of CSX Transportation, Inc (CSX). On March 23, 2012, ARCADIS (Randal Woodruff) spoke with Christine Stansifer with the Indiana Department of Natural Resources about the nature of the enclosed addendum.

CSX requests approval for the installation of an additional stretch of temporary access road to be completed within the flood plain of Clear Creek at 240 Country Club Drive in Bloomington, Indiana. ARCADIS has enclosed the permit addendum request, including relevant figures, and a copy of the existing Construction in a Floodway Permit No. FW-25726, for your review and permitting determination.

If you have any questions or comment concerning the activities at this site, please contact us at (317) 231-6500.

Sincerely,

ARCADIS U.S., Inc.

Randall L. Woodruff
Scientist/ Geologist II

Steven C. Sharp, LPG
Senior Scientist/Geologist

Enclosure
Copies: CSXT- Paul J. Kurzanski, REM



Imagine the result

ARCADIS
Infrastructure Water Environment Buildings

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis
Indiana 46204
Tel 317.231.6500
Fax 317.231.6514
www.arcadis-us.com

Mr. Joseph Young
Indiana Department of Natural Resources
553 East Miller Drive
Bloomington, IN 47401

Subject:
Addendum for Construction in a Floodway Permit No. FW-25726
240 W. Country Club Drive
Bloomington, Indiana

ENVIRONMENT

Dear Mr. Young:

Date:
23 March 2012

Contact:
Matthew D. Griles, LPG

Phone:
317.231.6500

Email:
mgriles@arcadis-us.com

Our ref:
IN000072.0050.00001

At the request of CSX Transportation (CSXT), ARCADIS has prepared this addendum to the existing Construction in a Floodway Permit No. FW-25726. This addendum requests approval for the installation of an additional stretch of temporary access road to be completed within the flood plain of Clear Creek at 240 Country Club Drive in Bloomington, Indiana (Site).

Background

CSX Transportation, Inc. (CSXT) is conducting a voluntary cleanup through the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP) at the former Indiana Creosoting Company (ICC) that operated at 240 Country Club Drive in Bloomington, Indiana. The soil and sediment impacts and residual liquid phase creosote remaining at the site are due to the past operations of the former ICC that operated from the early 1900s to 1976. The activities bulleted below received a Certificate of Approval for Construction in a Floodway Permit No. FW-25726 (Attachment A) on January 14, 2011, and are part of the overall environmental closure strategy for the site under the IDEM VRP site #6970403.

- construction of a series of temporary access roads,
- the installation of a culvert in a drainage ditch to enable equipment to cross a ditch onsite,
- the removal of impacted sediments from within Clear Creek,
- the onsite excavation of impacted soils
- the construction of a remediation and storage building

MAR 2012

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

CERTIFICATE OF APPROVAL
CONSTRUCTION IN A FLOODWAY

APPLICATION # : FW-25726

STREAM : Clear Creek

APPLICANT : CSX Transportation Incorporated
Paul J Kurzanski
500 Water Street
J 275
Jacksonville, FL 32202-4423

MAILED JAN 14 2011

AGENT : Arcadis G and M Incorporated
Steve Sharp
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

AUTHORITY : IC 14-28-1 with 312 IAC 10

DESCRIPTION : Approximately 8,400 cubic yards of soil will be excavated from the floodway and transported offsite. All disturbed areas will be completely restored including replacement of the removed soil with clean topsoil. The excavated areas will then be returned to existing grade and seeded. Temporary roadways will be constructed to allow access to existing and proposed monitoring wells on site. The roadways will be constructed by placing 4" of 3/4" crushed stone at grade. The temporary roadways will be completely removed upon completion of the project. Also, sediment will be removed from the streambed in 2 locations along clear creek. The excavated sediment will be dewatered and disposed by a licensed facility. A 3' wide blockade will be constructed to divert stream flow around the areas of sediment removal to allow for a dry work zone. In addition, a 24' long 36" diameter reinforced concrete pipe culvert will be placed in an Unnamed Tributary to provide an equipment crossing. The proposed culvert will be covered with 30 cubic yards of aggregate and will be completely removed upon completion. Details of the project are contained in information and plans received at the Division of Water on April 5, 2010, August 12, 2010, October 25, 2010, October 28, 2010, November 24, 2010, November 29, 2010, December 14, 2010, January 10, 2011 and January 13, 2011.

LOCATION : DOWNSTREAM: Beginning approximately 350' west of the intersection of South Walnut Street and West Country Club Drive and extending 1800' north, 1600' south, and 900' west near Bloomington, Perry Township, Monroe County
S½, SW¼, SW¼, Section 9, T 8N, R 1W, Bloomington Quadrangle
UTM Coordinates: Downstream 4331496 North, 540167 East
UPSTREAM: Monroe County

APPROVED BY : James J. Hebenstreit

James J. Hebenstreit, PE, Assistant Director
Division of Water

APPROVED ON : January 14, 2011

Attachments: Notice Of Right To Administrative Review
General Conditions
Special Conditions
Service List

NOTICE OF RIGHT TO ADMINISTRATIVE REVIEW

APPLICATION #: FW- 25726

This signed document constitutes the issuance of a permit by the Department of Natural Resources, subject to the conditions and limitations stated on the pages entitled "General Conditions" and "Special Conditions".

The permit or any of the conditions or limitations which it contains may be appealed by applying for administrative review. Such review is governed by the Administrative Orders and Procedures Act, IC 4-21.5, and the Department's rules pertaining to adjudicative proceedings, 312 IAC 3-1.

In order to obtain a review, a written petition must be filed with the Division of Hearings within 18 days of the mailing date of this notice. The petition should be addressed to:

Mr. Stephen L. Lucas, Director
Division of Hearings
Indiana Government Center North, Room N501A
100 North Senate Avenue
Indianapolis, Indiana 46204

The petition must contain specific reasons for the appeal and indicate the portion or portions of the permit to which the appeal pertains.

If an appeal is filed, the final agency determination will be made by the Natural Resources Commission following a legal proceeding conducted before an Administrative Law Judge. The Department of Natural Resources will be represented by legal counsel.

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

GENERAL CONDITIONS

APPLICATION #: FW- 25726

(1) If any archaeological artifacts or human remains are uncovered during construction, federal law and regulations (16 USC 470, et seq.; 36 CFR 800.11, et al) and State Law (IC 14-21-1) require that work must stop and that the discovery must be reported to the Division of Historic Preservation and Archaeology within 2 business days.

Division of Historic Preservation and Archaeology
Room W274
402 West Washington Street
Indianapolis, IN 46204

Telephone: (317) 232-1646, FAX: (317) 232-8036

(2) This permit must be posted and maintained at the project site until the project is completed.

(3) This permit does not relieve the permittee of the responsibility for obtaining additional permits, approvals, easements, etc. as required by other federal, state, or local regulatory agencies. These agencies include, but are not limited to:

Agency	Telephone Number
Monroe County Drainage Board	(812) 349-2570
US Army Corps of Engineers, Louisville District	(502) 315-6686
Indiana Department of Environmental Management	(317) 233-8488 or (800) 451-6027
Local city or county planning or zoning commission	

(4) This permit must not be construed as a waiver of any local ordinance or other state or federal law.

(5) This permit does not relieve the permittee of any liability for the effects which the project may have upon the safety of the life or property of others.

(6) This permit may be revoked by the Department of Natural Resources for violation of any condition, limitation or applicable statute or rule.

(7) This permit shall not be assignable or transferable without the prior written approval of the Department of Natural Resources. To initiate a transfer contact:

Mr. Michael W. Neyer, PE, Director
Division of Water
Room W264
402 West Washington Street
Indianapolis, IN 46204

Telephone: (317) 232-4160, Toll Free: (877) 928-3755
FAX: (317) 233-4579

(8) The Department of Natural Resources shall have the right to enter upon the site of the permitted activity for the purpose of inspecting the authorized work.

(9) The receipt and acceptance of this permit by the applicant or authorized agent shall be considered as acceptance of the conditions and limitations stated on the pages entitled "General Conditions" and "Special Conditions".

DEPARTMENT OF NATURAL RESOURCES

SPECIAL CONDITIONS

APPLICATION #: FW- 25726

PERMIT VALIDITY : This permit is valid for 24 months from the "Approved On" date shown on the first page. If work has not been initiated by January 14, 2013 the permit will become void and a new permit will be required in order to continue work on the project.

This permit becomes effective 18 days after the "MAILED" date shown on the first page. If both a petition for review and a petition for a stay of effectiveness are filed before this permit becomes effective, any part of the permit that is within the scope of the petition for stay is stayed for an additional 15 days.

CONFORMANCE : Other than those measures necessary to satisfy the "General Conditions" and "Special Conditions", the project must conform to the information received by the Department of Natural Resources on: April 5, 2010, August 12, 2010, October 25, 2010, October 28, 2010, November 24, 2010, November 29, 2010, December 14, 2010, January 10, 2011 and January 13, 2011. Any deviation from the information must receive the prior written approval of the Department.

Number	Special Condition
(1)	minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush
(2)	do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife
(3)	do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30
(4)	appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized
(5)	plant five trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height
(6)	revegetate all bare and disturbed areas with a mixture of native grasses, sedges and wildflowers, and native shrub and hardwood tree species as soon as possible upon completion; provide the selected native herbaceous seed mix list to the south region biologist for review prior to planting
(7)	plant all tree-planting mitigation areas with 1" to 2" diameter-at-breast height (dbh) trees; no shrubs or vines shall be substituted for 1" to 2" dbh trees
(8)	restore all excavated areas landward of the top of the banks to the pre-existing elevations
(9)	seed and protect disturbed slopes and streambanks that are 3:1 or steeper with heavy-duty biodegradable erosion control blankets (follow manufacturer's recommendation for installation); seed and apply mulch on all other disturbed areas
(10)	implement the mitigation plan received at the Division of Water on October 28, 2010 within 12 months of project initiation

DEPARTMENT OF NATURAL RESOURCES

SPECIAL CONDITIONS

APPLICATION #: FW- 25726

(11) the site must be monitored for the survival of the plantings for a minimum of three years; a report must be submitted to the South Region Environmental Biologist at the Division of Fish and Wildlife, 402 W. Washington St., Room W273, Indianapolis, IN 46204-2781 by December 31 of each year to monitor the initiation, progress, and success of the mitigation site; the report must include appropriate pictures of vegetative plantings; a narrative must describe the activity accomplished to date, acres planted, number planted, list of species planted on site, and estimated survival (volunteers should not be included in survival counts, only planted specimens); reports must be submitted each year, even if work has not been initiated on site, and continue for a maximum of five years after work initiation, or until the mitigation site is complete and determined to be successful; if the mitigation site is not successful after five years after work initiation, the permit will be considered in violation, and another plan must be submitted for approval

(12) the mitigation tree plantings must have a minimum survival of 75% of planted material at the end of the monitoring period or additional trees must be installed to meet the minimum survival (volunteer species shall not be included in the survival rate of planted trees and shrubs)

(13) place "Do Not Mow, Cut or Spray" signs along the edge of the mitigation/revegetation areas (one sign for every 200 feet of edge) to protect the restored/replanted areas from future disturbance

(14) except for the material used as backfill as shown on the above referenced project plans on file at the Division of Water, place all excavated material landward of the floodway *

(15) do not leave felled trees, brush, or other debris in the floodway *

(16) upon completion of the project, remove all construction debris from the floodway *

(17) size and/or anchor the riprap to resist displacement by current or wave action

(18) keep the culvert waterway opening within the scope of this project free of debris and sediment at all times

(19) upon completion of the project, completely remove the temporary crossing and its appurtenances from the floodway *

(20) * NOTE: for regulatory purposes, the floodway is defined as that shown on PANEL 40 of the City of Bloomington Flood Insurance Rate Map, dated June 17, 1991

DEPARTMENT OF NATURAL RESOURCES

SERVICE LIST

APPLICATION #: FW- 25726

CSX Transportation Incorporated
Paul J Kurzanski
500 Water Street
J 275
Jacksonville, FL 32202-4423

Arcadis G and M Incorporated
Steve Sharp
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

William and Peggy Barrow
2810 Limestone Drive
Bloomington, IN 47403-4412

David Brown
South 2631 Garrison Chapel Road
Bloomington, IN 47403-9228

CRTM Realty
2200 South Walnut Street
Bloomington, IN 47401-6520

Georgia M Deckard
121 Hoosier Street
Bloomington, IN 47403-4403

Terry Duffin
2800 Limestone Drive
Bloomington, IN 47403-4412

Frank Guthrie
2814 Limestone Drive
Bloomington, IN 47403-4412

John Horne
2804 Limestone Drive
Bloomington, IN 47403-4412

Indiana Limestone Company Incorporated
PO Box 1550
Bedford, IN 47421

Bay and Andrea J. Kelley
2818 Limestone Drive
Bloomington, IN 47403-4412

Monroe County Drainage Board
County Surveyor
Health Services Building 2nd Floor
119 West 7th Street
Bloomington, IN 47404-3989

SCP 2007-C27-034 LLC
ICVS Drive
Woonsocket, RI 02895

Ashael L Summitt
8319 Mockingabaird Lane
Indianapolis, IN 46256-1712

US Army Corps of Engineers, Louisville District
Louisville District Office
PO Box 59
Louisville, KY 40201-0059

Frank Varlandingham
3281 Carowinds Court
Bloomington, IN 47401-9589

Walnut Station Partnership
South 1128 College Mall Road
Bloomington, IN 47401-6178

William Alan Workman
2750 South Walnut Street
Bloomington, IN 47401-7301

Bloomington Plan Commission
Municipal Building
Box 100
Bloomington, IN 47401

Indiana Department of Natural Resources
Division of Law Enforcement
4850 South State Road 446
Bloomington, IN 47401-9165

Monroe County Area Plan Commission
Monroe County Court House Suite 306
Bloomington, IN 47401

Monroe County Soil and Water Conservation
District
931 Liberty Drive
Bloomington, IN 47403-3232

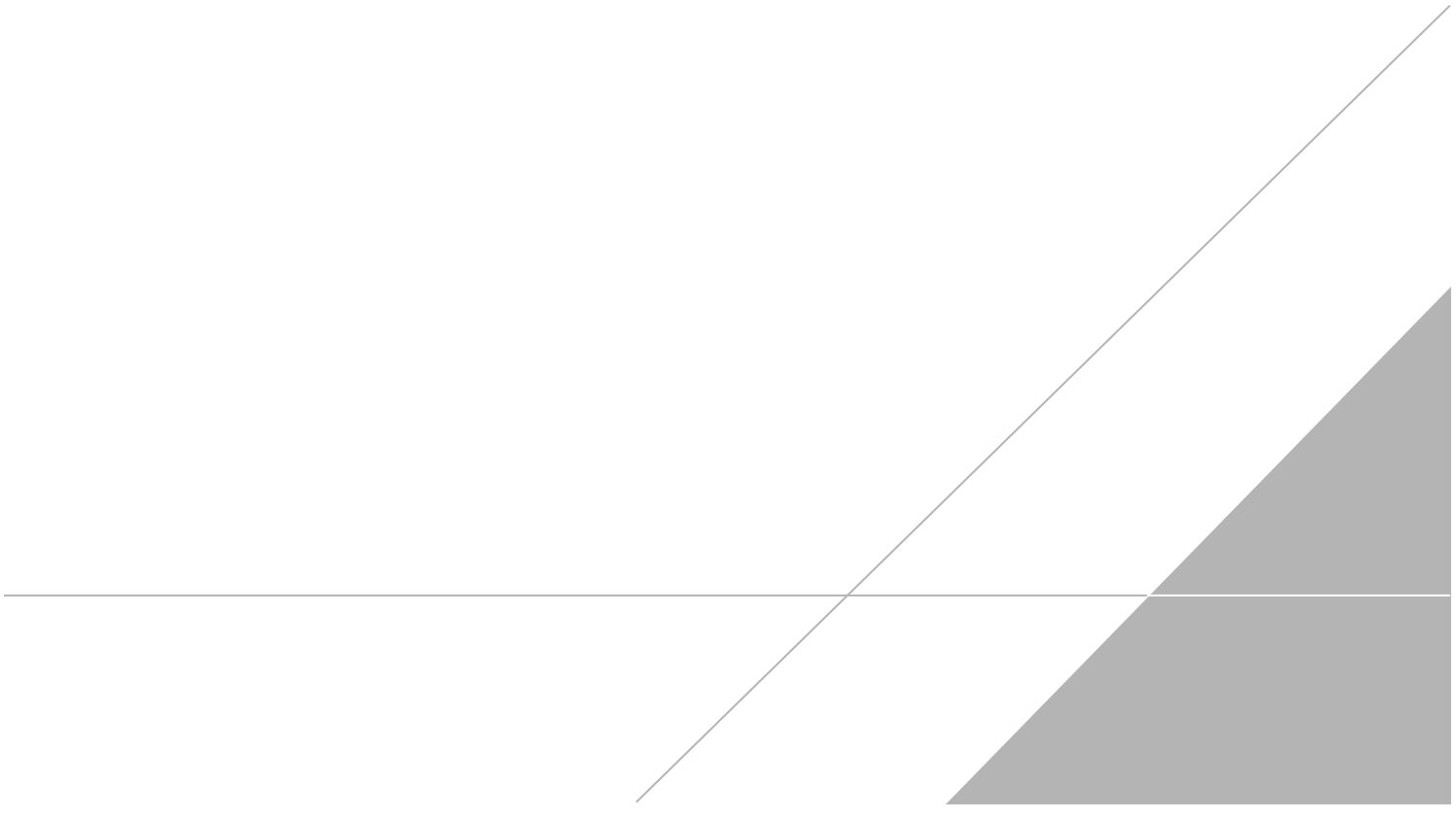
Ms. Linda P Thompson
Senior Environmental Planner Suite 160
City of Bloomington
Showers Center City Hall PO Box 100
Bloomington, IN 47402

Staff Assignment:

Administrative	: Joseph Young, CFM
Technical	: Joseph Young, CFM
Environmental	: Christie L. Stanifer
Fish and Wildlife	: Daniel Gautier

Monroe County Highway Department Driveway Permit

No. 2011234



Monroe County Highway Department
Courthouse Rm 323
Bloomington, IN 47404
(812) 349-2555

DRIVEWAY PERMIT

PERMIT #2011234

ISSUED TO: CSX TRANSPORTATION
FOR DRIVEWAY AT: 240 COUNTRY CLUB ROAD

OWNERS NAME: CSX TRANSPORTATION
500 WATER STREET, J275
JACKSONVILLE, FL

REQUIREMENTS

DRIVEWAY WITH SWALE: Construct a swale that allows water to drain across the driveway and away from the county road. See reverse side of permit. TEMPORARY CONSTRUCTION ENTRANCE.

A minimum of three hundred (300) feet sight distance both directions is required.

Two (2) foot dirt shoulders required.

All areas disturbed by construction must be seeded and mulched to prevent erosion.

Drainage ditches must be constructed to blend uniformly with the edge of pavement and original ground.

A turn around area is required so no vehicle must back out onto county roads.

It is the responsibility of applicant to make provisions for relocation of utilities which are in conflict with new driveway or subdivision road.

I AGREE TO CONSTRUCT MY DRIVEWAY TO COMPLY WITH THE ABOVE REQUIREMENTS.

SIGNED Eric Gulick for ARCADIS DATE 11/29/11

THIS PERMIT IS VALID ONE YEAR FROM 11/29/11 BY TT

William E Williams
WILLIAM E. WILLIAMS
MONROE COUNTY HIGHWAY ENGINEER

City of Bloomington Engineering Department Right of Way Excavation Permit No. C11-ROW-232



City of Bloomington
Engineering Department
www.bloomington.in.gov

401 N Morton Street, Suite 130
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3417
Fax: (812) 349-3520
Email: engineering@bloomington.in.g

Right of Way Excavation Permit

Company	Arcadis U.S., Inc.		
Responsible	Randall	Woodruff	
Project	Installation of construction entrance		
Bond Amount	$3,000.00	Expiration Date	11/5/2012

Status	Active
Inspector	Aten
Permit Fee	$100.00

Permit Number	C11-ROW-232
Date Issued	11/4/2011
Start Date	11/21/2011

Excavations

Number	Dir	Street	Type	Cut Type	Description
161	W	Country Club	Dr	Excavation_TreePlot	Southern ROW, East of Clear Creek.
240	W	Country Club	Dr	Excavation_TreePlot	Northern ROW, West of Clear Creek.

Special Provisions

(1) Permit for two temporary construction entrances, SE of Clear Creek and country Club and NW of Clear Creek and Country Club. The third proposed drive entrance is located within Monroe County jurisdiction. (2) After IDEM approval, temporary drive north of Country Club will need to be build to current COB drive standards.

Standard Conditions of Approval:

1) **Permittee is required to call the Engineering Department at 349-3417 for inspection of any work in the City of Bloomington Right of way prior to placing concrete, or at any point specified in the Specific Conditions of Approval.**
2) This approval only covers concerns within the jurisdiction of City of Bloomington Engineering; other entities or agencies may also need to grant approval for work done in the course of this project.
3) Project shall conform to all current A.D.A. (Americans with Disabilities Act) requirements.
4) All utility work shall conform to specifications to be obtained from the owner of the affected utility, and work on said utility shall be performed only with the expressed permission of its owner. It shall be the responsibility of the permittee to obtain any necessary inspections or approvals from the owner of the utilities involved.
5) Permittee shall be responsible for supplying and placing all required signs and barricades. All signs and barricades, and their placement, shall conform to current M.U.T.C.D. and I.N.D.O.T. standards. All required traffic control measures shall be in place before work begins.
6) Erosion control measures complying with Bloomington Municipal Code 20.06.05.03 are required to be in place during the period of any earth disturbing activities, and remain in place until the site is stabilized.
7) All bonding must remain current until a written release of such bonding is given by a representative of the City of Bloomington Engineering Department.
8) Any work in a street shall conform to the City of Bloomington Street Cut Requirements. Copies of these requirements are available from the Engineering Department or online at http://www.bloomington.in.gov/engineering/. All damaged Public Improvements must be repaired to prior or improved condition.
9) Any brick or inlaid limestone sidewalks, or brick surfaced streets, shall remain undisturbed, unless specific permission is given by a representative of the Engineering Department. If they are disturbed the surface materials shall be taken up, saved, and re-installed to City of Bloomington specifications. Backfill methods and materials must also meet these specifications.
10) Any damage to any underground facility or utility must be reported immediately to the City of Bloomington Engineering Department and the owner of the facility or utility (if known). If not, the permittee will be required to re-excavate the damaged facility or utility, at their expense, to demonstrate that repairs have been made to the satisfaction of the owner of the damaged facility or utility.
11) Any above ground appurtenances (line markers, switch boxes, meters, etc.) ,or structures, to be placed in the City Right of Way must be approved by the City of Bloomington Engineering Department prior to installation.
12) All existing regulatory signs (STOP, YIELD, NO PARKING, etc.) that are owned by the City of Bloomington shall be removed and replaced only by the City of Bloomington Traffic Division. Any regulatory signs removed, or installed, by the permittee are subject to removal and replacement by the Traffic Division with the Permittee being billed for time and materials.

Roy Aten
Engineering Field Specialist

Right of Way Excavation Permit

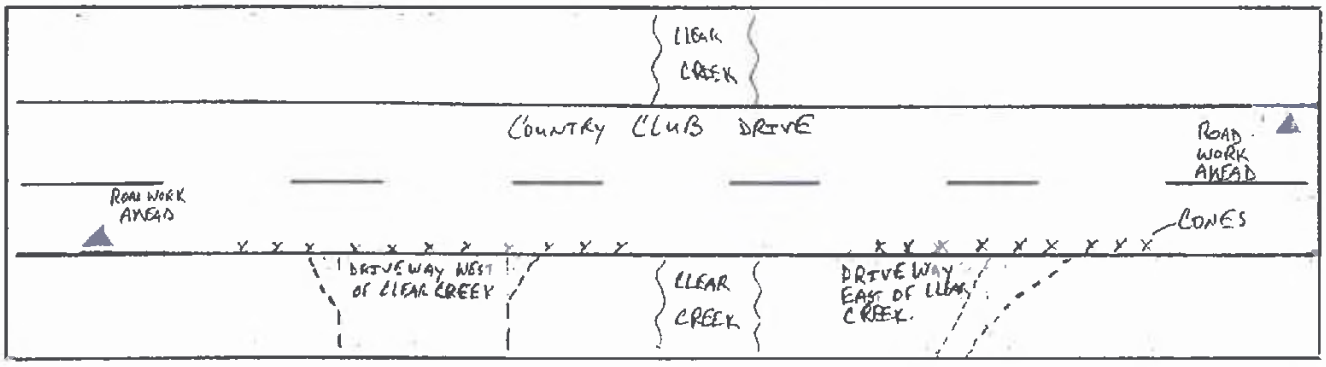
This permit must be kept on the job site at all times.

CITY OF BLOOMINGTON, INDIANA
APPLICATION FOR CITY RIGHT OF WAY EXCAVATION PERMIT

Project Information

Address/Location of Project: 240 Country Club Drive	**General Contractor:** ARCADIS
Type of Cut (i.e., street, sidewalk, alleyway, bore, lawn, etc.) Lawn	**Contact Person on Site:** Randall Woodruff **Cell Phone Number:** (317) 491-8607
Purpose of Cut (i.e., waterline, sewerline, etc.): Installation of two driveways	**Proposed Start Date:** Nov. 21, 2011 **Approx. Time of Completion:** 1-2 days per location
Linear Feet Being Cut: No cut **Width of cut or Total SF:** Bucket Width:	**Indiana Underground Plant Protection Service** In Indiana, Call Two Working Days Before You Dig. It's The Law 1-800-382-5544 **Reference Number:**
Proposed Method of Backfill: **Compacted 53's or Flow able Fill or Other:** Depth of Material Layers: Compacted Stone: X Concrete: Asphalt: **Total Depth of Cut:** No cut	**Bonding Information** You must be bonded to do any excavation work in the City right of way. **Name of Bonding Company:** Westchester Fire Insurance Co. **Amount of Bond:** $3,000 **Expiration Date:** 11-5-2012
Any traffic lane/sidewalk restrictions: Y or N	Bond must be on file with the City of Bloomington Engineering Department or submitted with this application

SKETCH OF LOCATION OF CUT
WITH TRAFFIC CONTROL MEASURES



Certification

The applicant hereby certifies and agrees as follows:

(1) I am authorized to make this application. (2) I have read this application and attest that the information which has been furnished, (including that contained in the plans) is correct. (3) The plans that have been furnished to the City of Bloomington are the basis upon which the City of Bloomington is entitled to act in issuing or revoking any permit for right-of-way excavation. (4) If there is any misrepresentation in this application, or any associated documents, the City of Bloomington may revoke said permit issued based upon this misinformation. (5) I agree to comply with all City of Bloomington Ordinances, permit conditions and State statutes, which regulate excavation work in the right-of-way. (6) I will abide by all City of Bloomington inspections and conditions of approval. (7) I will have the approved permit and plans (or copies) on the job site at all times.

This permit is not valid and work is not permitted until signed by the agent of the City Engineering Department

Signature of Agent/Contractor or Owner: [signature] **Date:** 11-3-11

ON BEHALF OF CSX

ENGINEERING OFFICE USE ONLY

Inspector/Reviewer:	**Date:** 11/4/11
☑ **Approved** ☐ **Denied**	**Permit Fee:** $100
Comments: CII-ROW-~~240~~ 231 232	

Driveway Installation in City of Bloomington Right-of-Way

Near 240 Country Club Drive, Bloomington, Indiana

Proposed Work Location:

Right-of-Way (ROW) on the south side of Country Club Drive: from the southern edge of pavement to the southern extent of the ROW. Work will be performed in two locations: one location west of the bridge over Clear Creek and one location east of the bridge over Clear Creek (see attached figure).

Work Activity:

Installation of two gravel driveways within the above mentioned ROW. The driveways will be completed using ¾" crushed stone aggregate to a maximum thickness of 4" above the existing ground surface (see attached figure). The location to the west of the bridge will be a maximum of 40' wide at the roadway, fanning down to 25' at the ROW extent. The location the east of the bridge will be a maximum of 25' wide at the roadway, fanning down to 15' at the ROW extent. We will reference the July 2004, Temporary Traffic Control guide provided by the City of Bloomington in regard to traffic control measures.

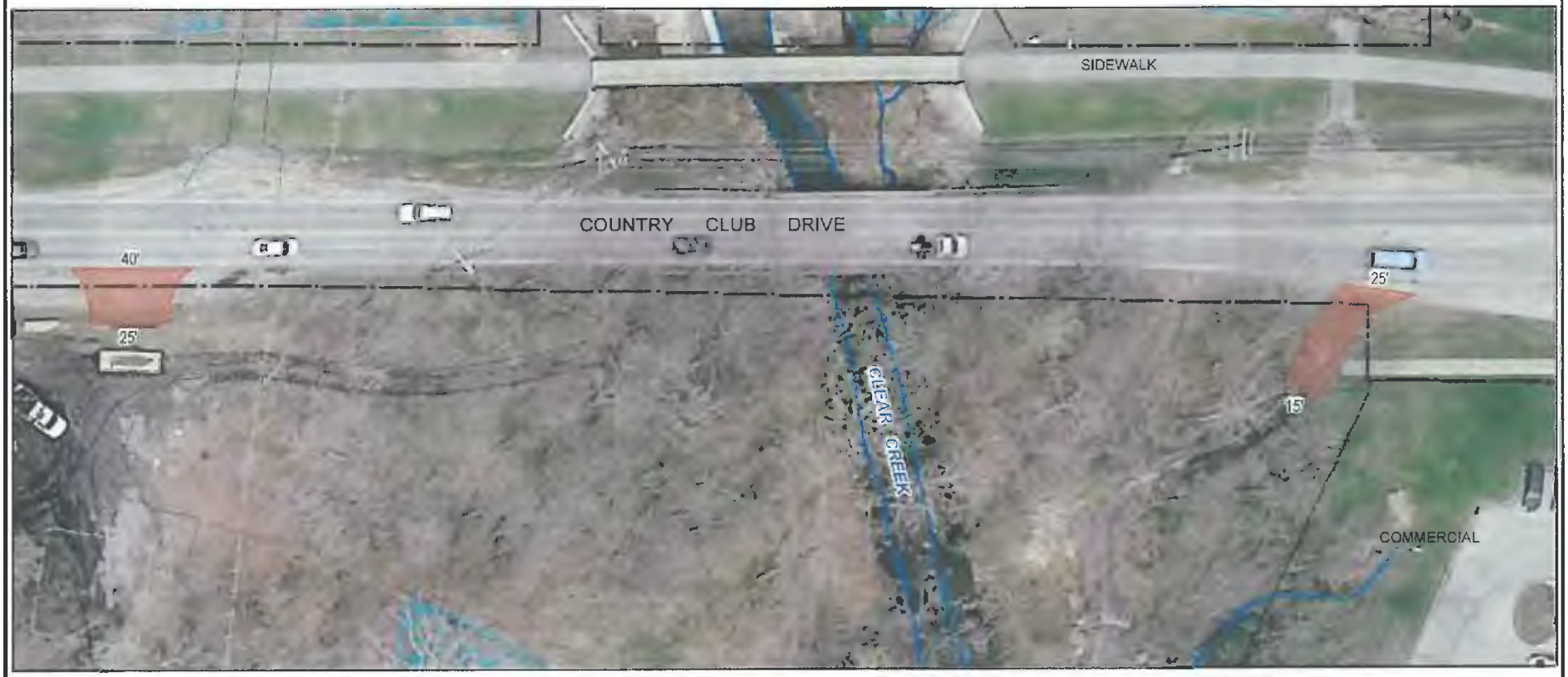
Length of Work Activity:

Initial construction of the driveways will take approximately 1 - 2 business days for each location. These driveways will be accessed on a regular basis for at least the next 10 years for the purpose of routine site work.

Reason for Work:

The work is being performed as a part of ongoing voluntary groundwater investigation/monitoring of a former CSX Transportation, Inc. site located at 240 Country Club Drive. All work is being performed under direction the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP).

CITY: (KNOXVILLE) DIV/GROUP: (ENV) DB: (B.ALTOM) LD: (B.ALTOM) PIC:(J.REID) PM: (S.SHARP) TM: (B.GRIGGS)
PROJECT: IND000072.0050.00001 PATH: G:\GIS\CSX\IN_Bloomington\MapDocs\2011\ACCESS\IN072_ACCESS DRIVEWAYS S.mxd - 8/22/2011 @ 4:29:24 PM



AERIAL SOURCE: http://www.indiana.edu/~gisdata (2010)
PROJECTION: NAD1983 State Plane Indiana West Feet

0 50 100
SCALE IN FEET

LEGEND

- Property Boundary
- Wetlands
- Former Site Features
- Former Railroad Track
- Road/Driveway (unpaved)
- Proposed Driveway Exavation Area

CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

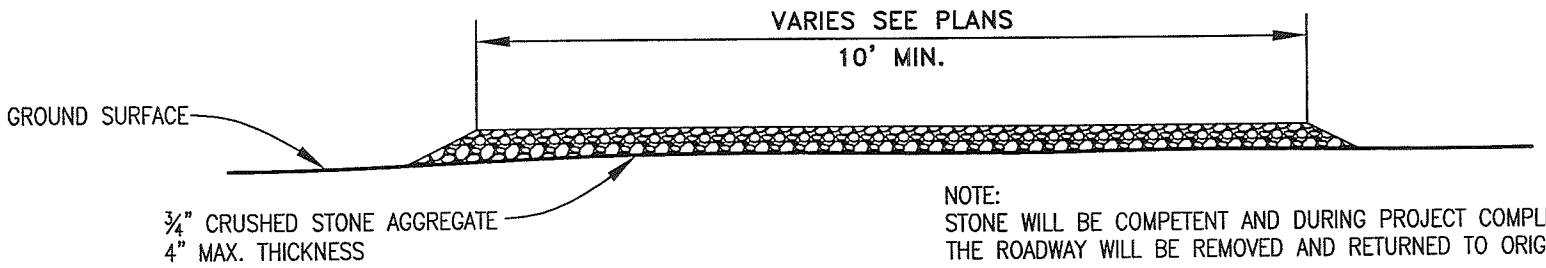
ACCESS AGREEMENT

Proposed Driveway Excavation Off of 240 Country Club Drive

ARCADIS

FIGURE
1

CITY: (KNOXVILLE) DIV/GROUP: (ENV) DB: (B.ALTOM) LD: (B.ALTOM) PIC:(J.REID) PM: (S.SHARP) TM: (M.GRILES)
G:\GIS\CSX\IN_Bloomington\MapDocs\2010 INDR PERMIT\SHTS 072_IDNR_details.dwg LAYOUT: 1 SAVED: 2/11/2010 5:03 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: ACS-MONO-IMPERIAL-CTB.CTB PLOTTED: 2/11/2010 5:04 PM BY: ALTOM, BRENDA



NOTE:
STONE WILL BE COMPETENT AND DURING PROJECT COMPLETION,
THE ROADWAY WILL BE REMOVED AND RETURNED TO ORIGINAL GRADE.

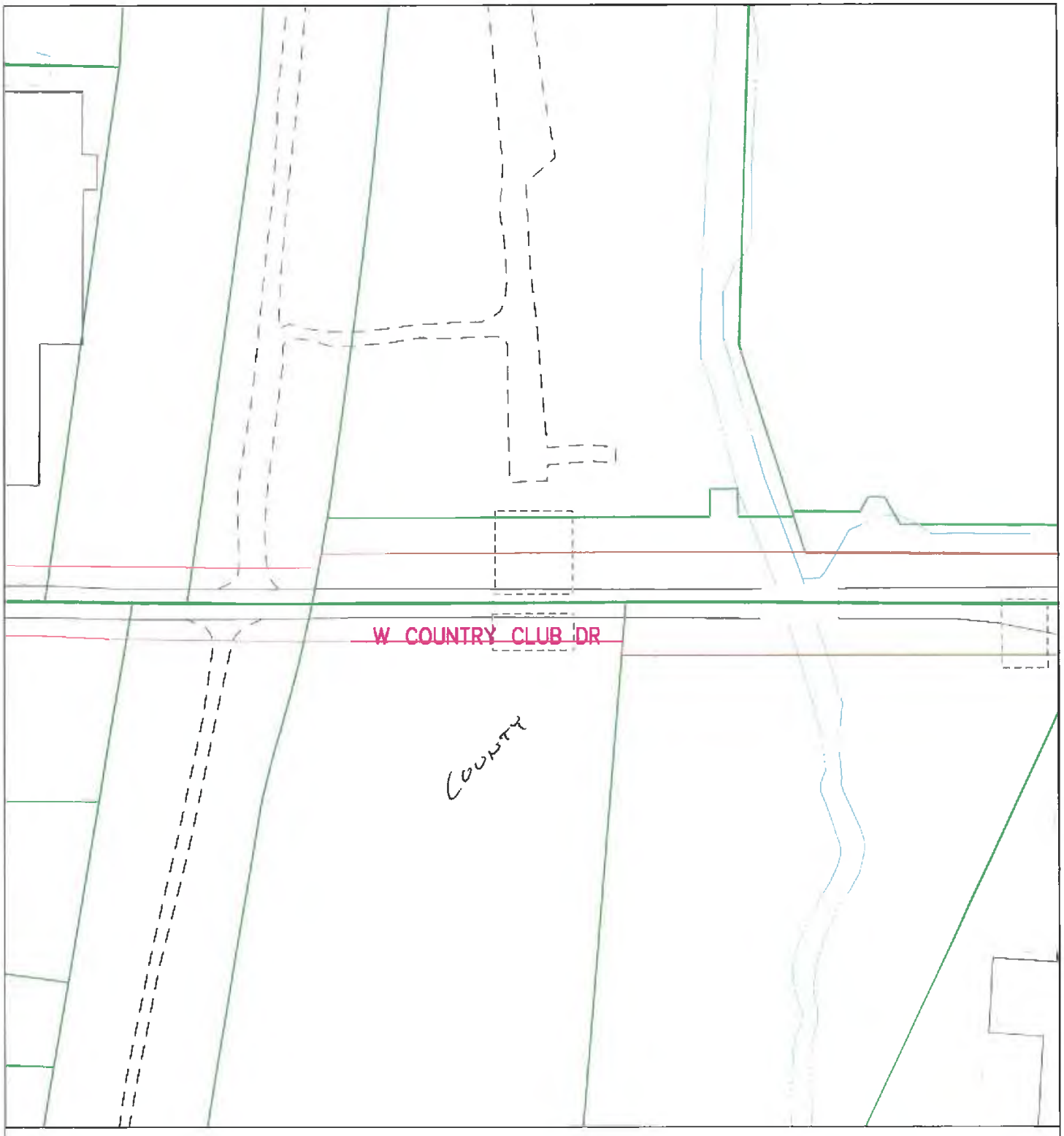
CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

INDR PERMIT APPLICATION

Detail #1
Roadway Cross-Section

ARCADIS

SHEET
1



240 W Country Club Drive

Ardadis, temporary construction entrance, North side of Country Club

Arcadis, two drives on South of W country Club

By: atenro

4 Nov 11

100 0 100 200 300

N

City of Bloomington
Engineering

Scale: 1" = 100'

For reference only; map information NOT warranted.

City of Bloomington
Engineering Department
www.bloomington.in.gov

401 N Morton Street, Suite 135
PO Box 1100
Bloomington, IN 47402

Phone: (812) 349 3477
Fax: (812) 349 3520
Email: engineering@bloomington.in.gov

APPLICATION FOR CITY DRIVEWAY AND EXCAVATION PERMIT

A City permit is required for any digging, cutting or excavating into or upon any street, alley or publication, or into or through any pavement thereon.

Address / location of project:
240 Country Club Drive

Property or project owner: CSX Transportation
Phone: 1-800-232-0144

Project:
CSX Transportation

Contractor: ARCADIS
Contact Person: Randall Woodruff
Phone: 317-491-8607

Type of cut (street, sidewalk, alley, bore, driveway, grass plot)
Trench

Depth of Cut (ft): 2.0' **Width of Cut (ft):** 1.0'
Lenght (ft): 10.0'

Start Date: April 9, 2012
Completion Date: April 13, 2012

Indiana Underground Plant Protection Service
In Indiana, Call Two Working Days Before You Dig!
It's The Law
Indiana 811 Know what's below. Call before you dig.

Bonding Information: Westchester Fire Insurance Co.
A bond must be on file with the City of Bloomington Engineering Department prior to any excavation work within the Right-of-Way.
Expiration Date 11/5/2012
Bond Amount $3,000

Any Traffic lane/sidewalk restrictions?: Yes or (No)

Location Map Show the following: North Arrow, streets and nearest cross street, property lines, sidewalks, houses, driveways and area being excavated. If applicable, attach site plan and traffic control plan.



LAT: LONG:

Certification:

The applicant hereby certifies and agrees as follows:

(1) I AM AUTHORIZED TO MAKE THIS APPLICATION. (2) I HAVE READ THIS APPLICATION AND ATTEST THAT THE INFORMATION WHICH HAS BEEN FURNISHED, (INCLUDING THAT CONTAINED IN THE PLANS) IS CORRECT. (3) The plans that have been furnished to the city of Bloomington are the basis upon which the City of Bloomington is entitled to act in issuing or revoking any permit for right-of-way excavation. (4) If there is any misrepresentation in this application, or any associated documents, the City of Bloomington may revoke said permit issued based upon this misinformation. (5) I agree to comply with all City of Bloomington Ordinances, permit conditions and State statutes, which regulates excavation work in the right-of-way. (6) I will abide by all City of Bloomington inspection and conditions of approval. (7) I will have the approved permit and plans (or copies) on the job site at all times.

This permit is not valid and work is not permitted until approval by an agent of the City Engineering Department.

Signature of Applicant: Randall D. Woodruff for ARCADIS on behalf of CSX

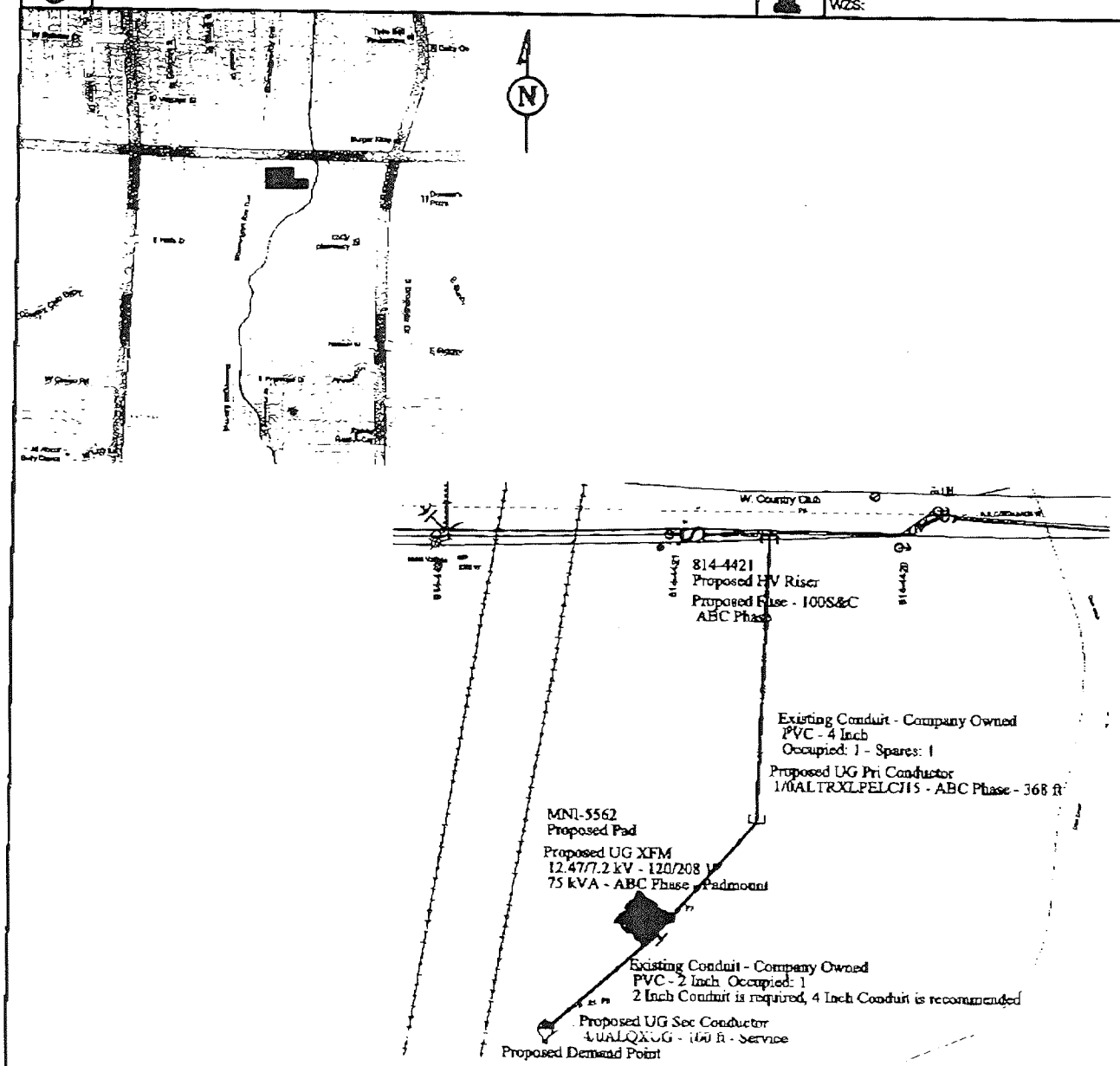
ENGINEERING OFFICE USE ONLY

Reviewer:	Permit Number:	Permit Fee:

Comments:

USP: The only upstream protective device is the substation breaker.
USP:
USP:

WZS: Remember "Your Circle of Safety"
WZS:
WZS:



Approval Date	
Project ID(s)	NBIN
Transmission Circuit	
Substation Circuit	Rogers St. 1206
URD Number	-
Primary Voltage	7.2/12.47kV
District	Bloomington
Responsibility Center	S450
Location	V742
Tax Code	
Total Labor Hours	
Foreign Utility #	
Foreign Cable #	
Tree Trimming	Yes___ No___
Right of Way	Yes___ No___
Facility Agreement	Yes___ No___
Permit Required	Yes___ No___
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	
Permit Type/No. 4	
Completed By	
Completed Date	

Work Order Number	2901598
Customer/Contact	Matt Griles
Contact Phone	317-236-5215 / 812-325-7504
Job Site Address	COUNTRY CLUB RD
City	BLOOMINGTON
County	MONROE
State, Zip	IN,47408
Designer	Jack Umuda
Designer Phone	812-337-3033

Arcadis 3-Phase Service

Duke Energy

Sheet 1 of 1
Scale = N/A

03/30/2012 09:52 FAX 8123373000 CINERGY PSI 003/003

From: Roy Aten
To: Woodruff, Randall
Subject: Re: 240 Country Club Drive: Trench Line Within ROW
Date: Friday, March 30, 2012 12:46:44 PM

Randall,

I am checking on the contractor and will let you know what I find. As for the proposed electric line, it sounds like a very minimal change in the scope of work and we can add it to the original permit at no extra charge. Keep this email for your records and thank you for the heads up on the extra work.

Thanks,
Roy Aten
City of Bloomington | Engineering Department
Office: 812-349-3591
Cell: 812-327-3340
Fax: 812-349-3520

On Fri, Mar 30, 2012 at 12:10 PM, Woodruff, Randall <Randall.Woodruff@arcadis-us.com> wrote:

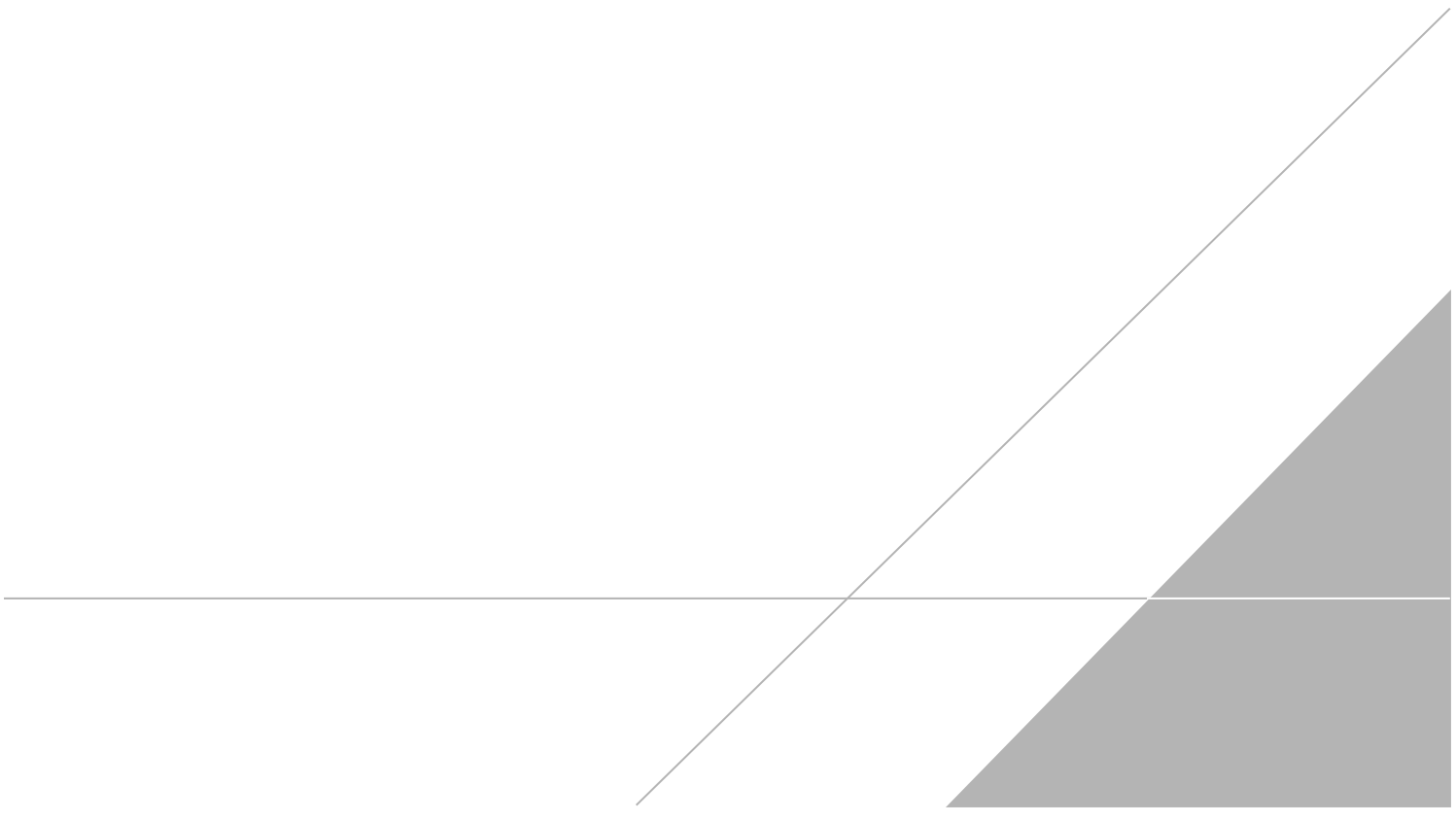
> Roy,
>
> CSX Transportation and ARCADIS are planning on digging a trench for an electrical line to a depth of 30" below grade at 240 Country Club Drive (property south of Country Club). We will be trenching within the ROW from the base of the electrical pole to the CSXT property fence line (a distance of approximately 10'). The rest of the trenching will take place on CSXT property. We are working with Jack Urrutia with Duke Energy, who said typically deals with you as well. I have attached the Application for City Driveway and Excavation Permit, as well as a drawing from Duke Energy. Also, is this something that can be added to the existing ROW permit, or does this need to be separate? Please feel free to contact me with any questions.
>
> Thank you for your time,
>
> **Randall Woodruff** | Geologist II | randall.woodruff@arcadis-us.com
>
> ARCADIS U.S., Inc. | 251 E. Ohio St., Suite 800 | Indianapolis, Indiana 46204
> T: 317 236 5238 | M: 317 491 8607 | F: 317 231 6514
> www.arcadis-us.com
>
> ARCADIS, Imagine the result

Please consider the environment before printing this email.

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Monroe County Building Department Permit

No. 2014-0208



MONROE COUNTY BUILDING DEPARTMENT

501 N. Morton Street, Suite 220B
BLOOMINGTON, INDIANA 47404
TELEPHONE: (812)349-2580 FAX: (812)349-2837

March 3, 2014

Project: CSX Transportation INC. – remediation project - Pole Building
S-1 Occupancy, Type V-B Construction

Construction Design Release

The plans, specifications and application submitted for the above referenced project have been reviewed for compliance with the applicable rules of the Fire Prevention and Building Safety Commission. The project is released for construction subject to, but not limited to, the conditions listed below. All construction work must be in full compliance with all applicable state rules.

Indiana Building Code, 2008

All construction work is to be in accordance with the Indiana Building Code.

Section 1607.3, Uniform Live Loads: The live loads used in the design of buildings and other structures shall be the maximum loads expected by the intended use but shall in no case be less than the minimum uniformly distributed unit loads required by Table 1607.1.

Section 1804.1, Footing Design: Footings shall be so designed that the allowable bearing capacity of the soil is not exceeded and that differential settlement is minimized.

Section 1805.4.2, Concrete Footings: The design, materials and construction of concrete footings shall comply with Sections 1805.4.2.1 through 1805.4.2.6.

Section 1805.7, Designs Employing Lateral Bearing: Designs to resist both axial and lateral loads employing posts or poles as columns embedded in earth or embedded in concrete footings in the earth shall conform to the requirements of 1805.7.1 through 1805.7.3. Wood poles shall be treated in accordance with AWPA U1 for sawn timber posts, Commodity Specification A, Use Category 4B. (To meet the requirements of the Indiana Building Code, post for ground contact and part of a building structure are to meet the AWPA UC4B are to achieve a protection rating of ACQ .60 or CCA .60. Verify that the posts achieve this requirement. Posts are to be set a minimum of 4' below final grade.)

Section 2304.9.5, Fasteners: Fasteners for preservative-treated and fire-retardant-treated wood shall be of hot-dipped zinc coated galvanized steel, stainless steel, silicon bronze or copper.

Section 2308.10.1, Wind uplift: Roof assemblies shall have rater and truss ties to the wall below. Resultant uplift loads shall be transferred to the foundation using a continuous load path.

Indiana Accessibility Issues, Chapter 11, 2008 & ICC/ANSI A117.1

Accessible routes, maneuvering spaces, bathrooms, turning spaces, plumbing fixtures and bath accessories shall be installed in locations and heights in accordance with this chapter.

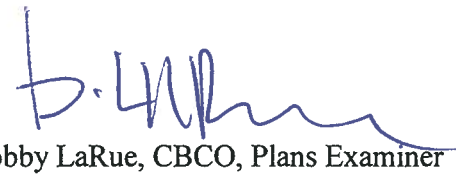
Indiana Mechanical Code, 2008
All mechanical work shall be in compliance with the Indiana mechanical Code.
(No mechanical work shown on the permit application. If a mechanical system is to be installed, contact the Monroe County Building Department prior to installation.)

Indiana Electrical Code, 2009
All electrical work shall be in compliance with the Indiana Electrical Code.
(No electric work shown on the permit application. If electric is to be installed, contact the Monroe County Building Department prior to installation.)

Registration and Licensing Requirements
Electrical work on the project is required to be performed by a Monroe County licensed electrician.

Certificate of Compliance
The design professional has certified that he will inspect the construction covered by this application at appropriate intervals to determine general compliance with the released documents and applicable rules of the Commission and will cause all noted deviations from released documents and code violations to be corrected or notify the owner and authorities having jurisdiction of all specific deviations and code violations.

Occupancy
1) All requirements of the Monroe County Planning Department *Certificate of Zoning Compliance.*
2) Satisfactory fire inspection by the Fire Jurisdiction.
3) Satisfactory final inspection by the Building Department.
The *Certificate of Occupancy* shall be obtained at the completion of the work and prior to occupying the structure.



Bobby LaRue, CBCO, Plans Examiner

INDUSTRIAL IMPROVEMENT LOCATION PERMIT

N O T E: This Improvement Location Permit pertains only to the attached plans and the specific use proposed, exactly as submitted and reviewed. This permit does not constitute the issuance of any other required permit nor exempt the property from compliance with any other requirements. All site improvements shall be implemented in accordance with the site plans as approved before a Land Use Certificate and/or a Certificate of Occupancy can be issued.

Application 14- NI-01

Name: CSX Transportation, Inc. **Type of Permit:** Industrial Building
Type: NI **Purpose of Permit**: Remediation Project Equip. Storage

Project Address	240 W Country Club Dr, Bloomington, IN 47403
Builder Address/Contact	Hoosier Equipment Services – Robert Farmer 317-838-8988
Township	Perry
Section	16
Subdivision	x
Lot Number	x
Zoning / Floodplain	IN (Institutional) / Floodplain on north and west side of property. Building will not be in the floodplain.
ECO AREANO.** There shall be no construction, earth disturbance, or clearing of existing vegetation within the area of the lot where the natural existing slopes of land is greater than your designated slope of 18%.	N/A
Setbacks from property lines	FRONT: 15 ' from right-of-way SIDE: 10' REAR: 10' HEIGHT: 50' primary structure 30' accessory structure
Parcel Number	53-08-16-200-052.000-008 / 014-19350-00
Constraints/ Notes:	Any outside lighting shall be shielded with appropriate light fixtures directing light down and away from adjacent properties in order that the illumination at the property line shall not exceed one (1) foot candle. Subject to Chapter 802 & 816 of the Monroe County Zoning Ordinance. Driveway arrangements were made through City of Blgtn.
Applicants Bedroom Request:	N/A
Building Application#	53801
Reviewed By	CP
Date	01/22/2014

LAND USE CERTIFICATE: If your permit request falls into any of the following categories, a Certificate of Occupancy may be withheld until a ***Land Use Certificate*** has been issued by the Planning Department:

- Commercial or Industrial development

- Multi-family residential development
- Subdivision or Planned Unit Developments

The attached plans have been reviewed for compliance with applicable provisions of Chapters 800- 833 of the Monroe County Zoning Ordinance, of the Monroe County Code, and conformance with the terms of any approvals which have been granted under the authority of the Zoning Ordinance or the Subdivision Control Ordinance.

The plans comply: ____x____ As Submitted _____ with modifications as follows

Chapter 814-1-D Permits and Certificates Revocation and Expiration of Permit

(1) An improvement location permit may be revoked if active work is not commenced within sixty (60) days after the date of its issuance, and continued with due diligence to completion. The Administrator shall judge whether due diligence is being shown.

(2) If the work described in any improvement location permit has not been commenced within one hundred and eighty (180) days from the date of permit issuance, said permit shall expire.

(3) If the work described in any permit has not been substantially completed within two years of the date of permit issuance, said permit shall expire.

(4) Upon the revocation or expiration of an improvement location permit, no further work may be performed on the subject property until a new permit is obtained.

816-5 General Requirements for Individual Building Lots Within a Permitted Project

(A) All storm water quality measures, including erosion and sediment control, necessary to comply with this Chapter must be implemented in accordance with the plan and sufficient to satisfy (B) of this Section;**(B)** Provisions for erosion and sediment control on individual building lots regulated under the original permit of a project site owner must include the following requirements:1. The individual lot operator, whether owning the property or acting as the agent of the property owner, shall be responsible for erosion and sediment control requirements associated with the activities on the individual lots;2. Installation and maintenance of a stable construction site access;3. Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance;4.Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization has been achieved;5. Clean-up of sediment that is either tracked or washed onto roads. Bulk clearing of sediment shall not include flushing the areas with water. Cleared sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules;6. Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with a temporary or permanent surface stabilization, and 7.For individual residential lots, final stabilization meeting the criteria of this Chapter will be achieved when the individual lot operator completes final stabilization or has installed appropriate erosion and sediment control measures for an individual lot prior to occupation of the home by the homeowner and has informed the homeowner of the requirement for, and benefits of, final stabilization.

Monroe County Building Department

501 N. MORTON ST RM 220-B
Bloomington, IN 47404
(812) 349-2580

BUILDING PERMIT

Permit Date: 03/17/2014 Permit #: **20140208**

Address: 240 COUNTRY CLUB DR W Lot #: N/A

Parcel #: 014-19350-00 Subdivision:

Township: PR 16

Scope of Work: COMMERCIAL ACCESSORY

Square Footage Finished: 1152

Unfinished: 0

Owner: L & N INVESTMENT CORP
500 WATER ST RM 1208
JACKSONVILLE, FL 32202

Telephone: 317-267-4151

Contractor: HOOSIER EQUIPMENT SOC. INC.

A permit to erect and/or modify a structure upon payment of a fee of **$297.80** is hereby granted. Receipt number: **34995**

The undersigned hereby certifies that the statement and drawings submitted are true and correct, agrees to perform the work covered by the permit in conformity with the applicable laws, regulations, and ordinances; and to comply with, and conform to, the deed and plat restrictions of the lot herein named. The undersigned here by acknowledges that it is illegal to occupy any new or remodeled structure prior to the issuance by the Monroe County Building Department of a CERTIFICATE OF OCCUPANCY AND COMPLIANCE for the structure and that a civil penalty of up to Two Hundred Fifty Dollars ($250.00) per day for each violation which exists may be levied against the undersigned and/or the responsible party. The undersigned hereby further agrees that he/she will not occupy the structure prior the issuance by the Monroe County Building Commissioner of a CERTIFICATE OF OCCUPANCY AND COMPLIANCE for the project. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE ORIGINAL APPLICATION A NEW PERMIT WILL BE REQUIRED.

Owner/Agent: [signature] ON BEHALF OF LSAT

Jim Gerstbauer
Monroe County Building Commissioner

[signature]
Clerk

Approved by State Board of Accounts for Monroe County, 2001



MONROE COUNTY BUILDING DEPARTMENT
501 N. MORTON ST RM 220-B
(812) 349-2580

* * * RECEIPT * * *

Permit #:	**20140208**		
Receipt #:	34995		03/17/2014
Application #:	53801		
Lot #:	N/A		
Address:	240 COUNTRY CLUB DR W		
Description:	COMMERCIAL ACCESSORY		
AMOUNT PAID:	$297.80		
PAYMENT TYPE:	CHK-99990		
FEES:	COMMERCIAL BASE	125.00	
	COMM SQ FT	172.80	

AMOUNT DUE: $0.00

By: _____

Approved by State Board of Accounts for Monroe County, 2001

Monroe County Building Department

(812) 349-2580 buildingoffice@co.monroe.in.us

Public Notice of

Building Permit

Permit #: 2014-0208

Name: CSX - Remediation Project

Project Address: 240 W. Country Club Dr.

Project Type: Commercial Accessory

Contractor: Hoosier Equipment Services

Date of Issue: 3/17/14

Permits expire 1 year from the date of issue.

Jim Gerstbauer, CBO
Monroe County / City of Bloomington
Building Commissioner

NOTICE:

This card is to be posted in a conspicuous place; visible from the public street, and shall remain in place during the entire period of construction. Not having this Permit Notice posted is a violation of the Monroe County Building Ordinance and could result in a fine or assessment of re-inspection fees. Any changes in the scope of the work as submitted in the construction application and specifications must be approved by the Monroe County Building Department prior to the work being performed.

City of Bloomington Board of Zoning Appeals Use Zariance

No. UV/V-47-3

CITY OF BLOOMINGTON

BOARD OF ZONING APPEALS

OCTOBER 24, 2013 @ 5:30 p.m.
COUNCIL CHAMBERS #115
CITY HALL

CITY OF BLOOMINGTON
BOARD OF ZONING APPEALS
October 24, 2013 at 5:30 p.m. **Council Chambers - Room #115**

ROLL CALL

MINUTES TO BE APPROVED: None at this time

PETITION CONTINUED TO: November 21, 2013

- UV-46-13 **GMS-Pavilion Properties, LLC**
  306 E. Kirkwood Ave.
  Request: Use variance to allow a bank drive-through in the Commercial Downtown (CD) zoning district.
  Case Manager: Jim Roach

PETITION REQUESTING CONTINANCE TO: November 21, 2013

- V-25-13 **Joseph Collison**
  933 N. Walnut St.
  Request: Variance from maximum parking standards.
  Case Manager: Jim Roach

PETITIONS CONTINUED TO: December 19, 2013

- AA-43-13 **Donald Lee**
  820 E. 8th St.
  Request: Administrative Appeal of a City Notice of Violation alleging the addition of a second dwelling unit.
  Case Manager: Patrick Shay

- AA-44-13 **William Burnett**
  816 E. 8th St.
  Request: Administrative Appeal of a City Notice of Violation alleging the addition of a second dwelling unit.
  Case Manager: Patrick Shay

REPORTS, RESOLUTIONS, AND COMMUNICATIONS:

PETITIONS:

- UV/V-47-13 **CSX Transportation**
  2660 S. Walnut St.
  Request: Use variance to allow outdoor storage. Also requested is a variance from fence height standards to allow an 8 foot tall fence.
  Case Manager: Eric Greulich

BLOOMINGTON BOARD OF ZONING APPEALS **CASE #: UV/V-47-13**
STAFF REPORT **DATE: October 24, 2013**
Location: 2660 S. Walnut St.

PETITIONER: **CSX Transportation**
31 E. Georgia Street, Indianapolis, IN

CONSULTANT: **ARCADIS U.S. Inc.**
132 E. Washington St, Indianapolis, IN

REQUEST: The petitioner is requesting a use variance to allow outdoor storage. Also requested is a variance to allow an 8' tall fence.

SITE DESCRIPTION: The petition site is located at 2660 S. Walnut St. and is zoned Planned Unit Development (PUD-30-90). It is part of the Walnut Station PUD which is located at the southwest corner of S. Walnut St. and W. Country Club Dr. The Clear Creek floodplain is also located to the west. The Walnut Station PUD was approved in 1990 to serve as a neighborhood shopping center. A branch bank, oil change facility, 11,550 sq. ft. shopping center, and a 12,900 sq. ft. CVS drug store have been developed within the PUD.

A former creosote yard was located on the north side of Country Club Drive and resulted in a substantial amount of creosote that has infiltrated the adjacent soil and bedrock in this area. CSX Railroad is working in conjunction with ARCADIS Engineering to clean up the creosote and remediate the contamination that has infiltrated the soil and ground water in this area. As part of the remediation work CSX needs to create an on-site storage area to temporarily collect contaminated material in storage drums until it is hauled away for permanent disposal.

There are 2 lots on the western portion of the PUD that have never been developed and it is within the southern most of these vacant lots that the petitioner is requesting a use variance to allow outdoor storage. The petitioner is proposing to construct a 20'x20' fenced enclosure area to temporarily store the collection barrels. The enclosure area would be located in a 40'x40' fenced compound. The barrels would be filled and collected from the adjacent monitoring and collection wells that have been dug at various locations adjacent to this site. The storage area would have an 8' tall fence surrounded by privacy slats to minimize view of the storage area. There would also be another 8' tall fence constructed along the front of the lot to prevent access to the work area. Each barrel would be stored on a containment pallet that would hold and contain any leaks. The barrels would be stored onsite for no more than 60 days before they are hauled away for permanent disposal. Access to the area would come from an existing driveway stub adjacent to CVS.

Outdoor storage is not a permitted use in this PUD, so the petitioner is requesting a Use Variance to allow outdoor storage. This use is only being requested while the remediation work is occurring and would not be permanent. The petitioner is also requesting a variance to allow for an 8' tall fence that will be used to secure the storage and remediation area.

The petitioner has secured permits from the Indiana Department of Natural Resources, Indiana Department of Environmental Management, and U.S. Army Corps of Engineers for the work related to this project. The Plan Commission heard this case at the October 7, 2013 meeting and voted unanimously to send this to the Board of Zoning Appeals with a positive recommendation.

SITE PLAN:

Floodplain: The 100-year floodplain of Clear Creek is located adjacent to this property. While there is nearby property owned by CSX that is zoned Institutional and would allow for Outdoor Storage, all of the areas zoned Institutional are also located within the floodplain and would therefore not make ideal locations for storage of this material. There would not be any fill placed with this project and no work within the floodplain is necessary for the storage area.

20.09.140 CRITERIA AND FINDINGS FOR USE VARIANCE:

Findings of Fact: Pursuant to IC 36-7-4-918.4. the Board of Zoning Appeals or the Hearing Officer may grant a variance from use if, after a public hearing, it makes findings of fact in writing, that:

(1) The approval will not be injurious to the public health, safety, morals, and general welfare of the community; and

Staff Finding: Staff finds no injury with the use variance request. This use will be for a limited time and does not allow a permanent use. The storage area will be fenced with a privacy fence to secure the area and buffer the view of the storage drums.

(2) The use and value of the area adjacent to the property included in the variance will not be affected in a substantially adverse manner; and

Staff Finding: Staff finds no adverse impacts to the use and value of the surrounding area associated with the proposed use variance. In contrast, the residents living in the area will benefit from the environmental remediation that is occurring as a result of the project.

(3) The need for the variance arises from some condition peculiar to the property involved; and

Staff Finding: Staff finds peculiar condition in that a majority of the petitioner's property is located in the floodplain. The only areas of the property that are outside of the floodplain do not allow for storage. Storage of environmentally sensitive material is discouraged within the floodplain and this site provides ease of accessibility. In addition, there are State cleanup regulations that do not allow the individual storage drums to be transported across a public road. This creates a clear burden on the petitioner to find an adjacent temporary storage location. The PUD did not foresee environmental cleanup as a possible land use and therefore did not list outdoor storage as a permitted use.

(4) The strict application of the terms of the Unified Development Ordinance will constitute an unnecessary hardship if applied to the property for which the variance is sought; and

Staff Finding: Staff finds the strict application of the Unified Development Ordinance will place an unnecessary hardship in that it would not allow the storage area to be located outside of the floodplain. Once again, the storage of environmental contaminants within the floodplain is detrimental to environmental preservation goals.

(5) The approval does not interfere substantially with the Growth Policies Plan.

Staff Finding: The Plan Commission found that this proposal does not substantially interfere with the Growth Policies Plan. The GPP designates this property as a Community Activity Centers. This request is only for a temporary use and not a permanent use on the property. The work to remediate this area will further many of the goals of the GPP, including "Nurture Environmental Integrity" by removing contaminants and pollution from the soil. This remediation will also allow for more redevelopment opportunities in this environmentally contaminated area and further the possibilities of the area being developed with future commercial uses associated with this Community Activity Center..

CRITERIA AND FINDINGS

20.09.130 (e) Standards for Granting Variances from Development Standards:
A variance from the development standards of the Unified Development Ordinance may be approved only upon determination in writing that each of the following criteria is met:

1. *The approval will not be injurious to the public health, safety, morals, and general welfare of the community.*

   Staff's Finding: Staff finds no injury to the general welfare. The placement of the fence will protect the collection area, and the inclusion of privacy lattice within the fence slats will buffer the visual view of the area.

2. *The use and value of the area adjacent to the property included in the variance will not be affected in a substantially adverse manner.*

   Staff's Finding: Staff finds no adverse impact to adjacent properties for the sections of 8' tall fencing that are proposed. In fact, the area adjacent to the collection area will be best protected by securing the storage bins in this area with 8' tall fencing. The storage area will be not a long term use on the property and the fencing is only related to the remediation work. Upon completion of the remediation work, the storage area and fencing will all be removed.

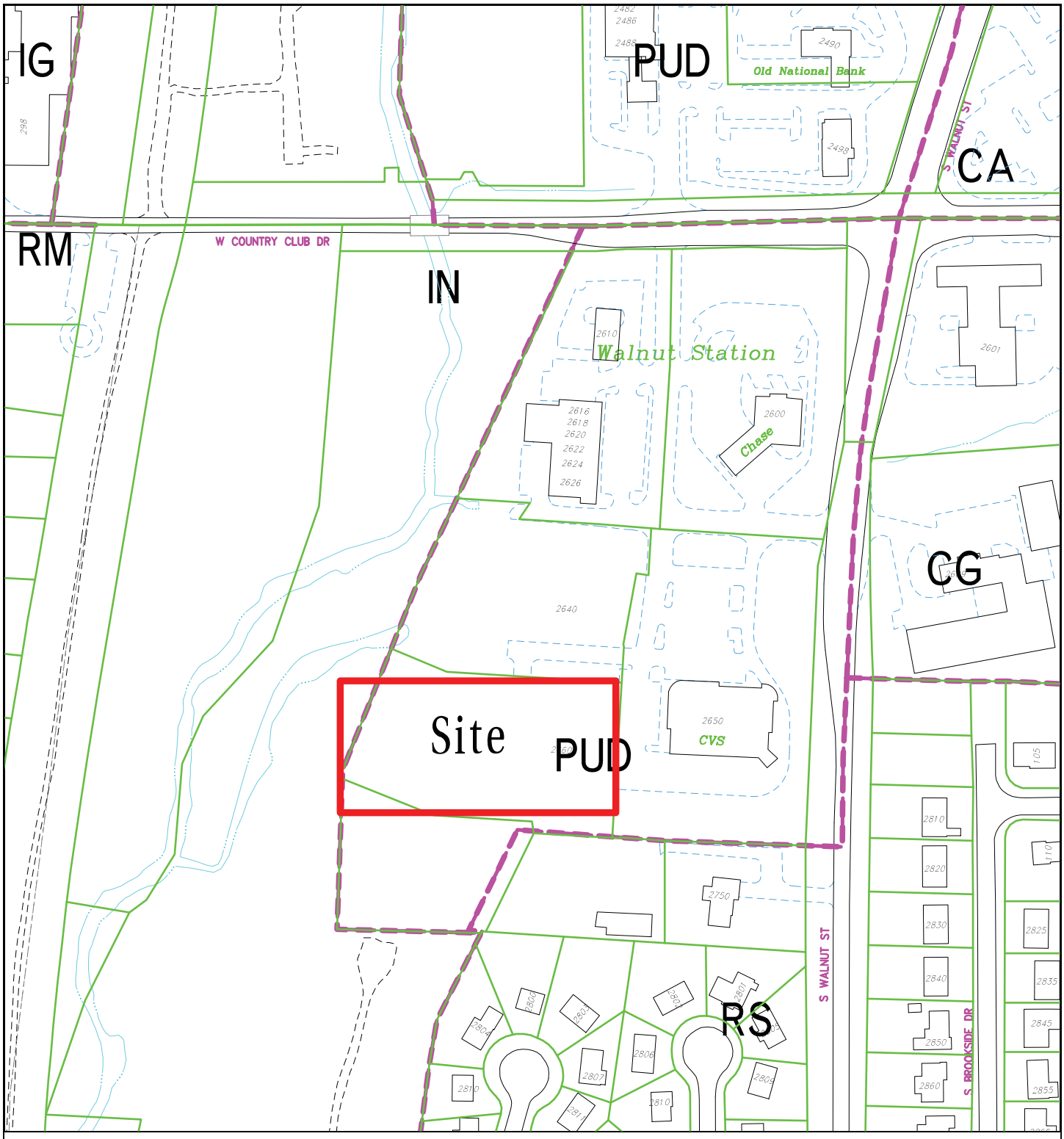
3. *The strict application of the terms of the Unified Development Ordinance will result in practical difficulties in the use of the property; that the practical difficulties are peculiar to the property in question; that the variance will relieve practical difficulties.*

Staff's Finding: Staff finds peculiar condition because adjacent properties owned by CSX that do have restrictions for fence height are inappropriately located within the floodplain. Only allowing a four foot tall fence in this location will not achieve the correct security or visual buffering needed for this project.

CONCLUSIONS: Staff finds minimal impacts as a result of this request for a temporary use. The cleanup of this contaminated area will improve environmental resources and allow for further development opportunities within the PUD. The fence enclosure to surround and buffer the view of the storage area will mitigate visual impacts.

RECOMMENDATION: Based upon the written report, staff recommends approval of the Use Variance and the Development Standards Variance with the following conditions:

1. All fencing and storage area components must be removed upon completion of the project.
2. Fencing must include a privacy component to prevent view of the interior storage area.



UV/V-47-16
GIS Location Map

By: greulice
13 Sep 13

200 0 200 400 600

N

City of Bloomington
Planning

Scale: 1" = 200'

For reference only; map information NOT warranted.



UV/V-47-16
□□1□ □□□ia□□□oto□□ap□

By: greulice
13 Sep 13

200 0 200 400 600

N

City of Bloomington
Planning

Scale: 1" = 200'

For reference only; map information NOT warranted.

Mr. Daniel Dyer, CPG
Manager Environmental Remediation & Safety

Public Safety, Health & Environment
11 East George Street
Indianapolis, Indiana 46204
(317) 267-4151
Fax (904) 357-7880
daniel_dyer@csx.com

File: IN, Bloomington, 9415829

Date: September 10, 2013

City of Bloomington
Planning Commission
Showers Center City Hall
401 N. Morton St., Suite 160
Bloomington, Indiana 47401

Subject: PETITIONER'S STATEMENT - USE VARIANCE REQUEST

Planning Commission:

CSX TRANSPORTATION, INC. (CSXT) is requesting a Use Variance for the property at 2660 South Walnut Street (Lot 3) to allow for temporary outside storage. CSXT is also requesting a Use Variance for the construction of a temporary security fence at the same property location. This property is part of the larger ongoing voluntary remediation project CSXT is performing at the former Indiana Creosote Company facility located at 240 East Country Club Road. The larger CSXT voluntary remediation project encompasses approximately 40 acres of land in the area and technical oversight is provided by the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP).

As part of the remediation project, CSXT is recovering free product creosote from the subsurface and by federal law (40 CFR Parts 261 and 262) must store the waste in the appropriate containers (55 gallon drums) before shipment off-site for incineration. A temporary storage location is necessary to comply with federal laws and CSXT is requesting the temporary storage location be on Lot 3. By DOT regulations (49 CFR Parts 172 and 173), the free product creosote cannot be transported by CSXT on Country Club Road to the west side, after it is recovered on the east side of Clear Creek; and therefore must remain on the east side of the project site. Because the material is required to stay on the east side of the creek, Lot 3 has been determined to be the most optimal location for that temporary storage. CSXT anticipates this remediation project to continue for several years before the IDEM VRP grants closure of the project (Certificate of Completion) and the property can be restored and available for redevelopment. Once the IDEM grants the Certificate of Completion, CSXT will remove all the temporary structures associated with the remediation project (i.e. buildings, fencing, concrete pads, monitoring wells, recovery wells, piping, etc.). This storage location will also allow for more expedient transportation of the recovered creosote (55 gallon drums) off-site and a quicker overall cleanup for the project.

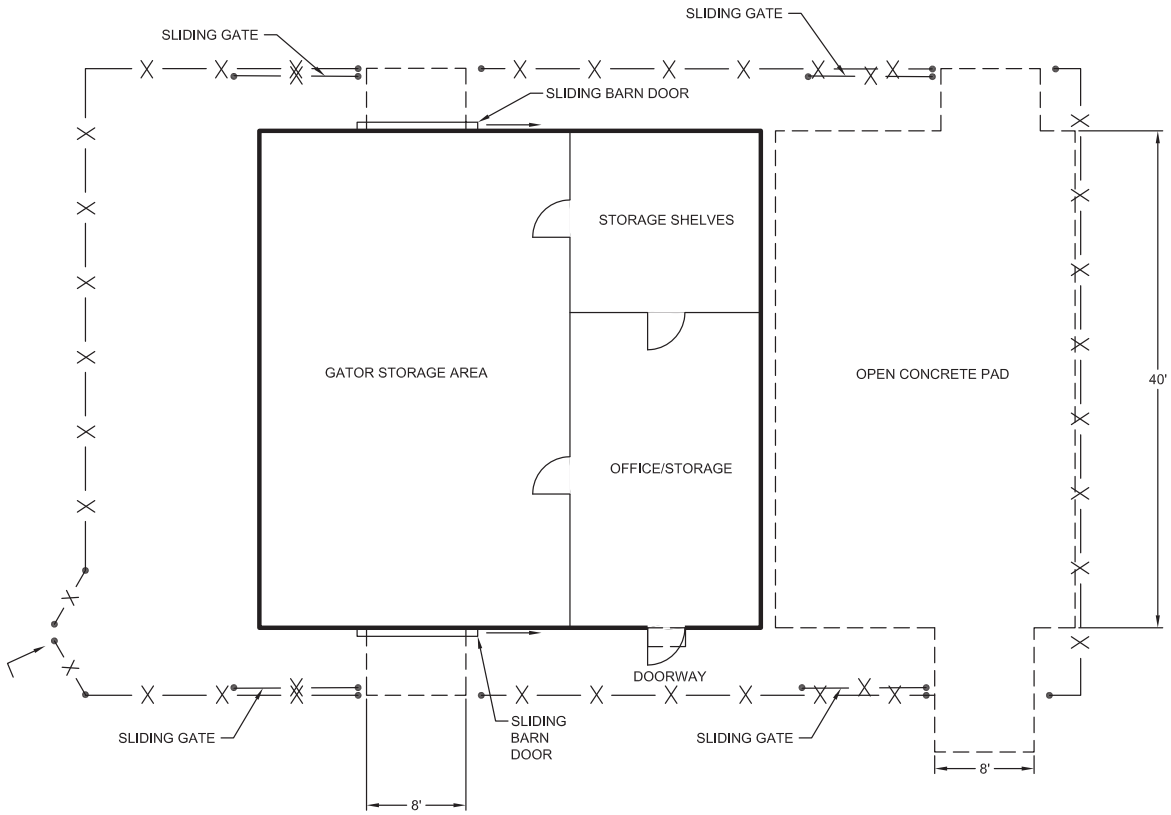
UV/V-47-1□
□□tition□□□□Stat□□ □nt

CSXT is also requesting a Use Variance for the construction of a temporary security fence around the outside storage area. This fence will be an approximate 8 foot tall chain-link fence with privacy slats which is necessary to provide security and deter vandalism to the temporary storage facility in this area. In addition, an approximate 8 foot tall open chain-link fence (no privacy slats) will be installed along the northern boundary of Lot 3 to deter any vehicle movement to the southern portion of the site.

CSXT appreciates the continued cooperation and assistance the City of Bloomington has provided for this project. This excellent work relationship has allowed for the City's purchase of the railroad line (Rails-to-Trails), the Pedestrian Bridge property, and the McDoel Yard in the past, which has resulted in a great redevelopment story for both the City of Bloomington and CSXT. We look forward to working with you on completeing the cleanup of the remainder of the project and putting the property back into reuse.

Sincerely,

Daniel S. Dyer, CPG
Manager Environmental Remediation & Safety



LEGEND:

- FREESTANDING BUILDING
- OPEN CONCRETE
- FENCE

0 10' 20'

GRAPHIC SCALE

CSX TRANSPORTATION, INC.
BLOOMING TON, INDIANA
REPORT TITLE

FENCED REMEDIATION COMPOUND WITH PROPOSED BUILDING AND CONCRETE STORAGE PAD

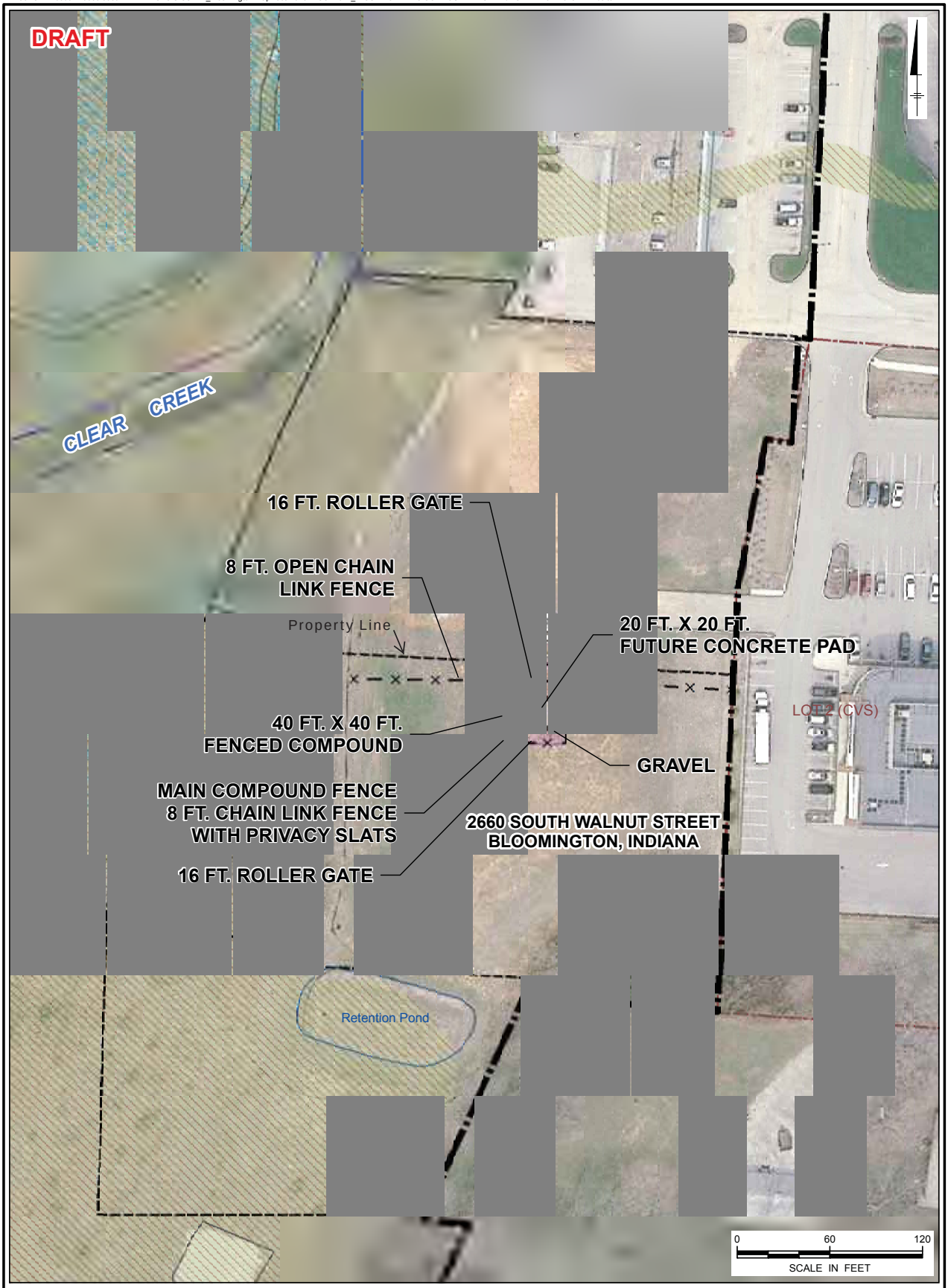
ARCADIS

FIGURE
1

SOURCE:

CITY:ROSEVILLE DIV/GROUP:ENV/CAD DB:ENV/CAD PM:STEVEN SHARP
G:\ENV\CAD\Roseville-CA\RETURN-CTX\mxd\1=TNIM00072\00720072B01\IDW\TNIM00072B01.dwg LAYOUT: 1 SAVED: 5/28/2013 9:18 AM ACADVER: 18.1S (LMS TECH) PAGESETUP:— PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 5/28/2013 9:18 AM BY: ROBITAILLE, BEVERLY

CITY: (KNOXVILLE) DIV/GROUP: (ENV/GIS) DB: (A.SMITH) LD: (B.ALTOM) PIC:(J.REID) PM: (S.SHARP) TM: (B.GRIGGS)
PROJECT: IN000072.0066.00001 PATH: G:\GIS\CSX\IN_Bloomington\MapDocs\2013\MISC\IN072_MISC PROP BLDG COMPOUND EAST.mxd SAVED: 5/1/2013 BY: baltom



AERIAL SOURE: http://www.indiana.edu/~gisdata (2010).
PROJECTION: NAD1983 State Plane Indiana West Feet

LEGEND

- Property Boundary
- Wetlands
- 100-year Floodplain (FEMA - FIRM - Flood Insurance Rate Map)

UV/V-47-1□
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CSX TRANSPORTATION, INC.
BLOOMINGTON, INDIANA

Proposed Remediation Temporary Waste Storage Compound

ARCADIS

FIGURE
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